# Oil, Paint and Drug Reporter

*The Chemical Market Authority Since 1871*

ABC

Volume 149 No. 21 — Schnell Publishing Company, Inc., Publishers — May 27, 1946



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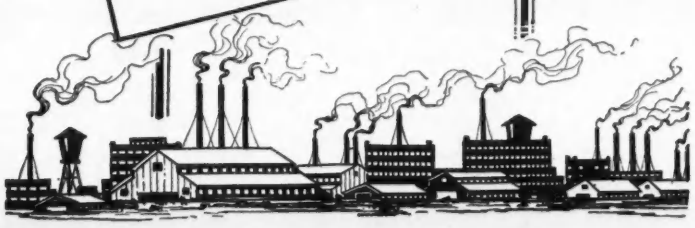

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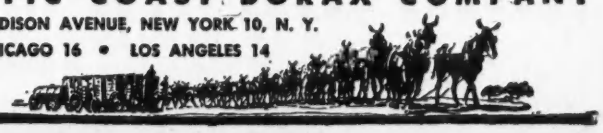

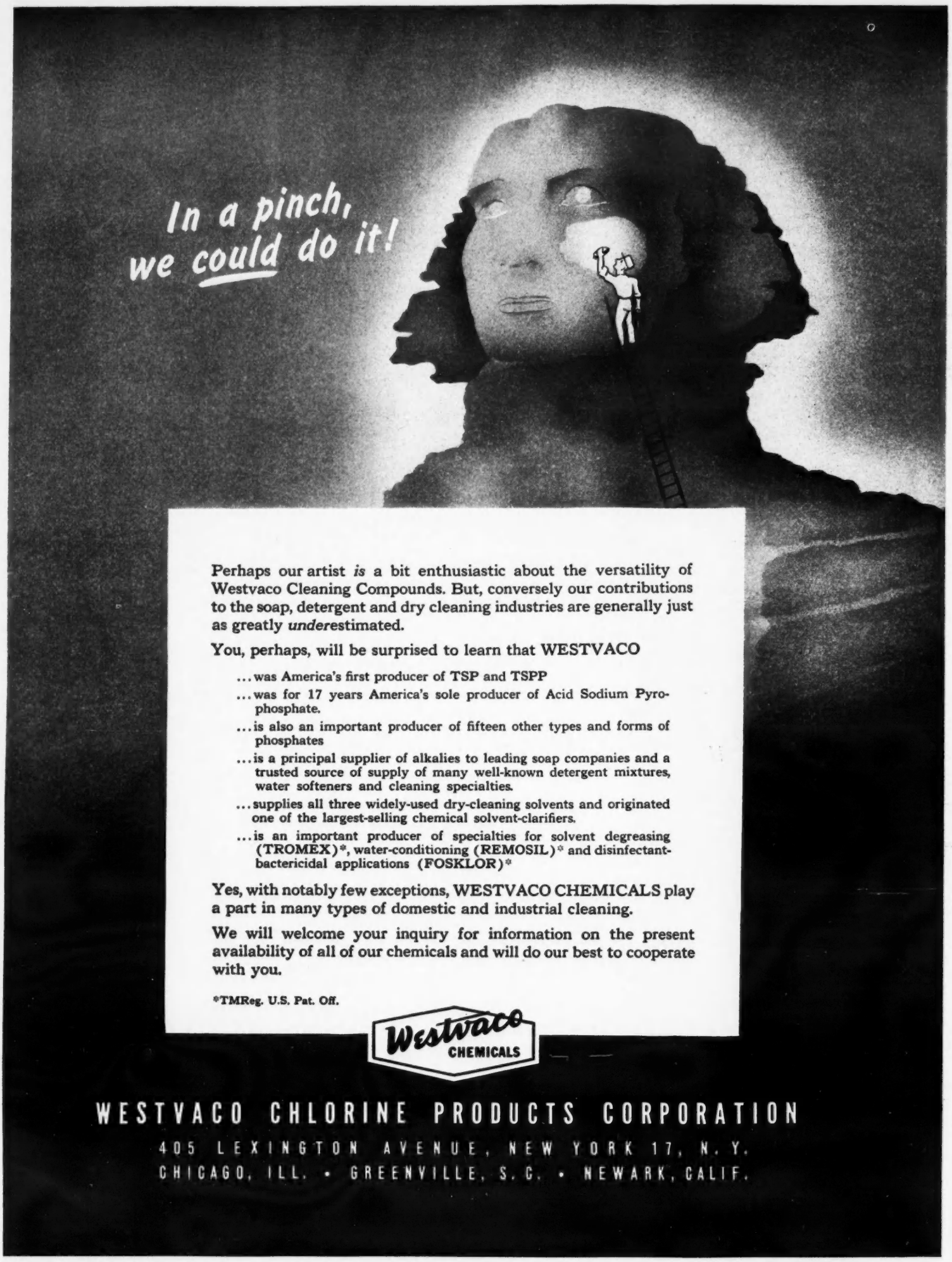


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# Oil, Paint and Drug Reporter

*Founded 1871 by William O. Allison* ABC *Published by Schnell Publishing Co., Inc.*

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## Standards Div. Now In Commerce Dep't

*OPD Washington Bureau*

The Division of Simplified Trade Practices and the Division of Commercial Standards of the National Bureau of Standards have been ordered transferred from that agency and placed directly under the supervision of the Secretary of Commerce by President Truman. The two divisions later are to be reassigned to the Office of Domestic Commerce by the Secretary, which is the focal point of the Department's general service functions for American business.

In announcing the reorganization move, the White House said that two major benefits are hoped for from the transfer:—

The association of the two divisions with the National Bureau of Standards has perhaps tended to give the impression in some quarters that voluntary standards and trade practices worked out by industry with the help of these two divisions are in some sense government standards which are enforced on the basis of scientific and objective tests. The transfer of these two divisions to the department proper would reduce any such misconceptions, and make it clear that these standards and simplified practices are voluntary industry agreements in the making of which the government acts merely in advisory capacity.

The other general services of the Department to American business such as marketing, management, and economic and statistical services, are now concentrated in the Office of Domestic Commerce. The association of these two divisions with these other services to business will facilitate their work and enable them to make use of the wide industrial and business contacts of the Office of Domestic Commerce.

The two divisions have a history dating back to World War I when standardization work was first initiated. They have both followed the same basic procedure of assisting the producers and consumers of particular products to agree among themselves on certain standards or on a certain limited number of varieties. Each such voluntary agreement is then published by the Bureau of Standards and, although not compulsory, has tended to become the generally accepted practice in the trade.

## Titanium 'Trust' Case Goes to High Court

*OPD Washington Bureau*

The Supreme Court of the United States May 20 agreed to review the decision of the United States District Court for the Southern District of New York holding E. I. duPont de Nemours & Co. and the National Lead Company guilty of violating the antitrust laws in the production of titanium pigments.

Both sides had appealed to the supreme court for review of the decision. The Department of Justice sought a review contending that the penalties imposed by the lower court were not harsh enough. The defendant companies argued that the conviction was in error because the contracts were a "reasonable exercise of patent rights" and were not a violation of the law.

The companies were found guilty of monopolizing the entire manufacture of titanium pigments in the United States.

## Lanham Trademark Bill Reported Favorably

*OPD Washington Bureau*

The Lanham trademark bill (H. R. 1654) has been reported favorably to the senate by the senate committee on patents. The bill emerged from the committee where it had been deadlocked for months late last week and now rests on the senate calendar awaiting passage. The measure is now conceded a good chance of final enactment.

## *Heads Sales Executives*

Frank W. Lovejoy, vice-president of the Socony-Vacuum Oil Corporation, New York, was elected president of the Sales Executive Club of New York at the annual meeting held in the Roosevelt hotel, May 21.

## Southern Chem. Workers Unionizing Taking Shape

*OPD Washington Bureau*

The announced intentions of the American Federation of Labor to organize the workers in the chemical and textile industries in the South began to take definite shape this week.

Following a meeting here May 20, the executive council of the AFL gave its unanimous approval to the plans now underway and authorized the appointment of the coordinator to direct all organizational efforts in the South.

*—Continued on page 42*

## SOCMA Meeting Dates Changed

The Synthetic Organic Chemical Manufacturers Association has changed the dates of its annual outing at Seaview Country Club, Absecon, N. J., to June 12 and 13. The meeting and outing was originally scheduled for June 13 and 14. The program calls for a board meeting at 2 P. M., June 12, followed by a general business meeting at 2:30 P. M. and dinner at 7:00 P. M. The golf tournament will be held June 13.

# Gwynne Bill Providing 2-Year Limitation Statute Passes House

*OPD Washington Bureau*

The threat that has constantly faced all business concerns that they may some day be made defendants in a suit for heavy damages for an unwitting violation of a Federal statute in years past may soon be wiped out by Congress. By unanimous vote the house passed the Gwynne bill (H. R. 2688) May 20 providing a two-year statute of limitations, where existing law is silent on this point, for all civil actions seeking recovery of wages, penalties, or other damages brought by private individuals.

The bill is far reaching in its application and has long been sought by business. It affects directly some nineteen causes of action for damages, including such cases as suits for treble damages and costs for violations of the antitrust laws, suits for treble damages based on infringement of registered trademarks, suits based on infringement of copyrights, suits for double the amount involved plus costs for violations of the wage-hour law, and the like.

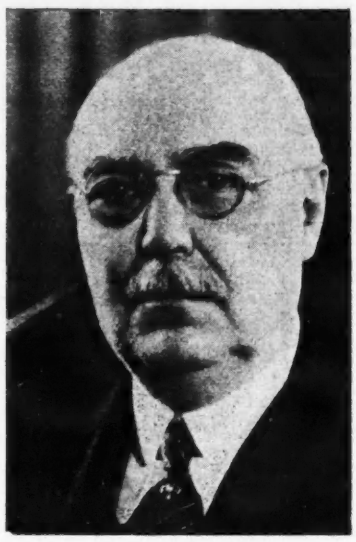
At the present time when it is not specifically provided in the law, the time within which suits may be filed for damages are governed by the law of the state in which the cause of action occurred. This might range anywhere from one year to twelve years, as in the case of Maryland and since few concerns keep records such as records of wages paid a particular worker over any considerable period of time they ofttimes are faced with courageous claims for damages.

Also it is possible under some Federal laws, notably the fair labor standards act, for damage suits to be filed for retroactive resulting from a subsequent change in an administrative ruling or interpretation of the law.

*—Continued on page 42*

## J. K. Lilly Observes 70th Year With Firm

Josiah K. Lilly, son of the founder, and chairman of the board of Eli Lilly & Co., pharmaceutical manufacturer,



Josiah K. Lilly

Indianapolis, will celebrate the seventieth anniversary of his association

*—Continued on page 61*

## Brewer Co. Buys Unit Of Atlantic Fisheries

Brewer & Co., pharmaceutical manufacturer, Worcester, Mass., has purchased the Emulsicap division of the Atlantic Coast Fisheries Company, New York. The purchase provided for all foreign and domestic rights and for all equipment of the division to be moved to Worcester.

# Fertilizer Makers to Expand

Fertilizer manufacturers are planning expansion programs to meet growing demands for their products, the National Fertilizer Association has stated, on the basis of reports from members. Plans as reported by various firms, call for new capacity ranging from 10 percent to 65 percent of their present facilities.

Since the beginning of the war, the NFA said, manufacturers have been confronted with a succession of difficulties, hampering the execution of building programs. Limitations on the use of building materials and shortages of such materials, labor and transportation have retarded construction activities.

Nevertheless, through increases in the use of labor-saving devices, overtime work and other measures, fertilizer production has steadily mounted. In 1945, it was possible for American farmers to obtain 13,200,000 tons of fertilizer as compared with 7,707,278 tons used in 1939. The 1945 consumption was almost 80 percent greater than in the average of the five-year period 1935-1939. Demand for fertilizers continues strong. Although the country's total production capacity has consistently exceeded demand, individual manufacturers are seeking to be prepared for new responsibilities.

Building programs would extend over a period of from one to three years. Some companies have worked out plans for installation of new machinery in established units. Other concerns are planning additional storage space important in enabling them to build up their stocks of materials. Still others are planning arrangements for moving finished products out of their plants over a longer period than the normal "shipping season." This project would call for further cooperation of farmers in buying and storing fertilizer in off-season months.

Some manufacturers explained that carrying out of expansion plans would depend upon indications that the Congress would not approve the pending Hill-Bankhead-Flannagan bills and other measures for putting the government into the fertilizer business.

## Stokes Machine Upheld In Closure Patent Suit

The United States Court of Appeals has affirmed the lower court in its holding that the Stokes Automatic Molding Machine, Philadelphia, for producing threaded closures does not infringe the patents of the Wheeling Stamping Company dealing with such machines.

## DCAT Urged to Legislative Activity

The confusing and sometimes conflicting lack of uniformity among Federal, State, and municipal laws and regulations applicable to the drug and related businesses is largely the consequence of the failure of business adequately to concern itself with legislative programs, said Carson Gray Frailey at the luncheon meeting of the Drug, Chemical and Allied Trades Section of the New York Board of Trade, May 22. Mr. Frailey, who is the Washington representative of the section, reviewed some of the more troublesome variations in statutory provisions and urged that business leaders take upon themselves the task and duty of initiating and furthering movements toward desirable uniformity.

Legislation, because of its potent influence on the relations of producer and consumer, demands as much attention in a strictly business sense, Mr. Frailey said, as is customarily given to sales promotion or production processes and programs. He decried the apparent lack of understanding to which might be attributed the failure of business to recognize and be guided by the interdependence of producer and consumer in its attitude toward governmental movements for regulatory legislation. He advised business to take the initiative in the construction of necessary laws in that category.

The program of the meeting was in charge of Carle M. Bigelow, director of the pharmaceutical department of the Calco Chemical Division of the American Cyanamid Company, who is vice-chairman of the section. Mr. Frailey was introduced by Carl M. Anderson, of the legal staff of Merck & Co., who is the section's counsel.

## Sterling Drug Elects Tainter Vice-President

Dr. Maurice L. Tainter, director of the Sterling-Winthrop Research Institute, has been elected a vice-president of the Sterling Drug Company, New York.

## Lead Quota for Paint Makers to Be Cut

An order reducing further the quantity of lead to be available for the paint industry and other essential users is scheduled for issuance this week by the Civilian Production Administration.

Officials report that the lead situation is continuing to deteriorate as a result of the prolonged strikes. They added that it will also be necessary to reduce the available supply of tetraethyl lead for gasoline refining and the order is expected to require that the octane rating for premium gas to be reduced from 80 to 78 points.

## Chemicals Output Up In Amer.-German Zone

Output of basic chemicals and chemical products in the American zone of occupied Germany again registered appreciable increases during March owing to improved supplies of fuel, power, labor and many raw materials, according to the monthly report of the Military Government made public by the War Department May 20.

The industry is estimated to have operated at 25 percent of capacity during March as compared with 20 percent for February. Spring, with its accompanying warmth and steady supply of hydro electric power, should be instrumental in attaining still greater production in April if supplies of fuels and skilled workers are not too drastically affected by the recent reduction in food rations, it was stated.

The report gave these figures on chemical production for March:—

Fertilizers:—Cyanamid, 3,361 tons (N); other nitrogen compounds, 9 tons (N); phosphate, 341 tons ($P_2O_5$); potash, none. none.

Basic inorganic chemicals:—Soda ash, 3,400 tons; caustic soda, 2,263 tons ($Na_2O_4$); sulphuric acid, 1,590 tons ($SO_3$), calcium carbide, 12,646 tons; hydrochloric acid, 2,866 tons (30% HCl); chlorine, 2,025 tons.

Basic organic chemicals:—Acetic acid,

—*Continued on page 40*

## Chemical Salesmen Addressed by Cohoe

The Salesmen's Association of the American Chemical Industry was addressed at its luncheon meeting in the Roosevelt hotel May 23, by Dr. Wallace P. Cohoe, president of the Chemists' Club of New York and former president of the Society of Chemical Industry. Dr. Cohoe reviewed the part played by salesmen in the distribution of chemicals.

James McInnes, jr., of Commercial Solvents, president of the association announced at the meeting that the association will hold its initial golf tournament of the season at the Baltusrol Country Club, N. J., June 23.

## Plant Food Council Appoints Agronomist

Appointment of Dr. John R. Taylor, of Richmond, Va., as agronomist and Lewis H. Wilson, of Washington, D. C., as director of information for the American Plant Food Council, has been announced by Clifton A. Woodrum, president of the council. Prior to the appointment Dr. Taylor was agronomist for the Virginia Carolina Chemical Company, Richmond, Va., and Mr. Woodrum was director of publicity for National Grange.

## Turpentine Wanted

The Commodity Credit Corporation announces that it contemplates the purchase of 200,000 gallons of wood turpentine (gum spirits or steam distilled) and will receive offers under announcement SC-86 until 5 p.m., June 5. Delivery is to be required June 15 to August 15.

### Coke By-Products

Estimates of by-product coke-oven operations in the **week** ended May 18 indicate the following output of by-products from that source:—

| | | |
|---|---|---|
| Ammonia liquor $NH_3$ | lbs. | 363,232 |
| Ammonia sulphate | lbs. | 9,405,785 |
| Benzol | gals. | 1,185,282 |
| Coaltar | gals. | 4,397,014 |
| Creosote oil | gals. | 244,703 |
| Naphthalene | lbs. | 5,811,705 |
| Phenol | lbs. | 68,822 |
| Toluol | gals. | 237,056 |
| Xylol | gals. | 53,529 |

### *OPD Price Index*

The OIL, PAINT AND DRUG REPORTER's relative record of prices for chemicals and related materials is currently as follows:—

| May 23, 1946 | May 16, 1946 | May 25, 1945 |
|---|---|---|
| **135.1** | **135.2** | **132.5** |

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

Price views were a trifle easier last week in the markets for chemicals, oils, and drugs. They were not active nor widely prevailing. Nothing in the mineral field was affected. The general feeling was that prices had dropped still lower among minor matters because of the blockading by the threat of strikes of what little materials still remained to be moved. As over - the - roof bidding for numerous commodities has long been rumored to be common, it is easy to assume that "What-can-I-get?" is a bigger question than "What do I pay?"

## Patent Laws Amendment Hearings Scheduled

The house committee on patents has tentatively set June 4 as the date to begin hearings on three bills affecting and amending the patent laws in important respects. They are:—

H. R. 3694 to declare the national policy regarding the tests for determining invention.

H. R. 5842 fixing the date for the termination of World War II for special purposes.

H. R. 5940 making government-owned patents freely available for use by citizens of the United States, its territories and possessions.

## NPVLA Southwest Meeting June 7

The National Paint, Varnish and Lacquer Association will hold a Southwestern zone meeting at Rice's hotel, Houston, Tex., on June 7. The meeting will begin at 9:30 a.m.

### *On NAM Board*

**John R. Suman, a vice-president of the Standard Oil Company (New Jersey), has been elected to the board of directors of the National Association of Manufacturers.**

## Schoellkopf Medal Presented to Gilbert

The Jacob F. Schoellkopf Medal for outstanding service to chemistry was presented to Dr. Harvey N. Gilbert, of E. I. du Pont de Nemours & Co., Wilmington, Del., by the American Chemical Society's western New York section at a dinner in the General Brock hotel, Niagara Falls, N. Y., May 21.

Dr. Gilbert, who is director of sodium and cyanide products research at the Niagara Falls plant of the du Pont company's electrochemicals department, was cited for his contributions to the production, handling and application of metallic sodium and its derivatives.

## Drake Reelected Head Of Industrial Board

Colonel J. F. Drake, president of the Gulf Oil Corporation, has been reelected chairman of the National Industrial Conference Board.

## Rosin Export Quotas To Remain Unchanged

*OPD Washington Bureau*

Producers and consumers of rosin were advised by Civilian Production Administrator Small May 24 that the agency does not contemplate either removing or increasing rosin export quotas.

Mr. Small said it is our view that these quotas must be retained at a level that will protect the future rosin supplies of essential American industries. Mr. Small said:—

At the moment, we cannot see that it would be wise to permit exports to exceed 250,000 drums between April 1 and October 1, 1946. Should the present export quotas be removed or substantially increased all current surplus production would be swept from the market. This would result in a grave rosin shortage during the gum non-producing period later this year and early in 1947.

## Toluene Surplus Sold by WAA

*OPD Washington Bureau*

Surplus stocks of toluene, totaling 11,200,000 gallons, offered by the War Assets Administration late in April, were completely cleared out by May 13, closing date of the sale.

WAA had received orders for approximately 45,000,000 gallons of the material, offered at 10c. per gallon, with minimum orders in tankcar lots.

## *Recent Imports*

**All matter under this head fully protected by copyright**

### New York Imports

ARECANUT—160 bgs, S B Penick & Co
ALCOHOL—500 dms, Continental Distilling Corp
AMMONIA MURIATE—1,734 bgs, Philipp Bros; 298 bgs
ANNATTO SEED—100 bgs, Judson, Sheldon & Co; 250 bgs, J A Manton & Co
AMYRIS OIL—1 dm, Polak & Schwarz
ANGELICA ROOT—17 bls, Brown Agencies
ANIMAL WAX—89 bgs, Continenti Bank & Trust Co
ARSENIC—100 dms, American Smelting & Refining Co
ARTIST'S MATERIALS—17 cs, Winsor & Newton
BALATA—23 bgs, Bank of the Manhattan Co
BALSAM—4 dms, Wessel, Duval & Co; 3 dms
BAUXITE—35 cs, F P Gaskell Co
BEES WAX—146 bgs, American Cyanamid & Chemical Corp; 117 bgs, Irving Trust Co; 76 bgs, Curacao Trading Co; 56 bgs, Poons Co; 41 bgs, Schutte & Focke; 26 bgs, H H Pike & Co, Inc; 17 bgs; 132 bgs, Will & Baumer Candle Co; 102 bgs, W M Allison & Co; 44 bgs, Herman Struller; 36 bgs, E A Bromund Co
BERGAMOT OIL—20 half cs, National City Bank; 40 qtr cs, Consumers Import Co; 20 qtr cs, Orbis Product Corp; 20 half cs
BRUCINE—5 cs, New York Quinine & Chemical Works
BUTTONLAC — 266 bgs, Manufacturers Trust Co
CALAMUS ROOT—100 bgs, S B Penick & Co
CASTOR BEANS—1,700 bgs, Baker Castor Oil Co; oil 399 dms, Balfour, Guthrie & Co
CHALK, PRECIPITATED—500 bgs, H J Baker & Bro
CHAMOMILE FLOWERS—18 bls, Peek & Velsor

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## *Obituaries*

### Horace W. Bigelow

Horace William Bigelow, general counsel for the American Drug Manufacturers Association from 1922 to 1939, died in Detroit May 18 at the age of fifty-seven years. He had been in ill health for several years; this compelled him to retire three years ago from the position of general counsel for Parke, Davis & Co., pharmaceutical manufacturer, Detroit, which he had held since 1920.

Mr. Bigelow was born in Corunna, Mich., son of William Harley and Adelaide Rhoda (Brooks) Bigelow. He was a graduate of the Owosso High School and got his LLB degree at the University of Michigan in 1912. He was a major in the U.S.A. sanitary service in the first world war, and he had been connected with the Detroit law firms of Stevenson, Carpenter, Butzel & Barkus and Warren, Cody, Ladd & Hill.

Mr. Bigelow and Ethel Smurthwaite were married in 1913. Mrs. Bigelow survives her husband. He left also two children, Mrs. John G. (Barbara) LaDue, St. Louis, and William Horace Bigelow, Detroit.

### Henry E. Cutts

Henry E. Cutts, vice-president and treasurer of Stillwell, Gladding, Inc., consulting and analytical chemist, New York, died in Tenafly, N. J., May 20. He was seventy-nine years old.

—*Continued on page 63*

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## Argentina Takes Over Oilseeds and Oils

*Buenos Aires, May* 23 (Comtelburo)—The Argentine government has decreed that the Agricultural Production Regulating Board is authorized to purchase all actual and future stocks of flaxseed, sunflowerseed, peanuts, and rapeseed. The prices per 100 kilos in bags on wagon at the port of Buenos Aires, are as follows:—Flaxseed, 35 pesos; sunflowerseed, 28 pesos; peanuts, 44 pesos; rapeseed, 35 pesos.

The regulating board is also authorized to purchase supplies of oils for export from Buenos Aires, and also meals, as well as expellers or cakes. The prices (in pesos) on these purchases have been authorized as follows:—

| | Pesos | | |
|---|---|---|---|
| | Oils (per kilo) | Expellers or cakes (per metric ton in bags) | Meals (per metric ton in bags) |
| Linseed | 0.99 | 222 | 200 |
| Sunflower-seed | 1.21 | 230 | 200 |
| Peanut | 1.15 | 230 | 205 |
| Cottonseed | 1.18 | 210 | 180 |
| Rapeseed | 1.05 | 208 | 180 |

The Argentine government's central bank will eventually fix the available export surpluses and the corresponding prices. Consequently, there will be no further market quotations on these products.

It is officially reported that the agreement signed May 9, 1945, between the United States and Argentina is about to be rectified.

## Copper, Lead, Zinc Output Subsidy Cut

The senate committee on banking, moving slowly towards a final decision on the bill for extending the emergency price control act, voted May 22 to reduce by two-thirds or more the amount of funds that may be expended in subsidizing production of copper, lead and zinc.

Under an amendment adopted by the committee, subsidy payments are limited for all purposes to $1,100,000,000, a reduction of 50 percent below the $2,051,000,000 sought by the Administration. Of the amount approved, subsidy expenditures for the three metals are to be limited to $100,000,000, which compares with $300,000,000 proposed by the administration.

The sum to be set aside for these metals may be reduced eventually to $50,000,000 since the termination date of this phase of the overall subsidy program has not yet been determined. In the case of foods, the amendment provides that subsidies for these products are to end May 1.

Under the bill as it was passed by the house, it was provided that subsidies on metals and foods were to be reduced 25 percent every forty-five days after July 1, 1946. This would have ended the program December 31, next.

## Mineral Deposits Jurisdiction Transferred

Jurisdiction over mineral deposits on lands held by the Department of Agriculture have been transferred to the Department of the Interior by President Truman, it is announced by the White House. Administration of mineral leasing on these lands under the jurisdiction of the Department of Agriculture will be carried on subject to limitations necessary to protect the surface uses for which these lands were primarily acquired.

The Department of the Interior now administers the mining and mineral-leasing laws on various areas of the public lands, including those national forests established on parts of the original public domain. The Department of Agriculture, on the other hand, has jurisdiction with respect to mineral deposits on forest lands acquired under the Weeks Act, lands acquired in connection with rural rehabilitation, and lands acquired by the Department as a part of the government's effort to retire submarginal lands.

The reorganization accordingly provides that these mineral deposits on lands of the Department of Agriculture will be administered by the Department of the Interior, which already has the bulk of the federal government's mineral-leasing program.

# *P.A.'s-Eye View of Business*

*Composite view, May 26, of purchasing agents composing the Business Survey Committee of the National Association of Purchasing Agents*

*OPD Washington Bureau*

Industrial purchasing agents report a marked deterioration in general business conditions. There is a strong trend toward poorer business than a month ago. Confusion seems rampant. "Take it or leave it!" and "What's the use?" express the general attitude of business. Forward planning is impossible, and a day-to-day basis rules. Strikes and material shortages have buyers groggy. While some few buyers report the quantity of business is on the upgrade, the quality is definitely on the downgrade. Suppliers generally indicate that sales are not being made with any profit, let alone a normal profit. There appears to be no letup in demand, but the capacity to produce is static, because of material shortages. However, many buyers believe orders are inflated and look for a reduction in backlogs before the year is over.

Reports from the West coast and Canadian buyers follow the general pattern of confusion and uncertainty. Money and work are plentiful. The lack of finished goods and materials of all kinds is holding up progress.

**Commodity Prices**

The trend of prices generally is upward at an accelerated rate. Very few items are not affected. Price advances appear to range from 7.5 percent to 25 percent. Higher wages in all industries account largely for the increases. Escalator clauses increase daily, and many are without escape provisions. Very few orders can be placed without paying higher than previous prices. There are some indications of material being held from markets in anticipation of higher prices, principally in consumer goods. At present this does not appear to be a serious factor in industrial materials.

Buyers are almost unanimous in their opinion that the price trend all along the line in upward. Although ceilings are being held to some extent, an increasing number of items are being removed from price-controls.

**Inventories**

A decided trend toward lower industrial inventories is reported. Inventories are also reported in a badly unbalanced condition. Less materials are available. This situation is more critical than during the war period. Supplies moving from manufacturers have slowed down. Extreme pressure by expeditors is needed to keep plants running, with no overages for inventory purposes.

The low inventory situation is generally attributed to labor difficulties of suppliers or their sources. The outlook for good sustained production is not bright.

**Buying Policy**

Under present business conditions rigid adherence to any definite buying policy would be impossible. Selling, as well as buying, is in a state of confusion, and many are not operating along sound business lines. The old landmarks and guideposts of business appear of little value. As a result, no definite time policy for buying can be stated. In general, it ranges from hand-to-mouth up to coverage of some capital equipment items for periods of two years. The situation at the time of negotiation dictates the policy. In general, however, a three months' position would appear to be good buying policy, with anything beyond somewhat hazardous.

**Specific Commodity Changes**

There seems to be no limiting factor to the trend of increasing prices. Many believe advances in coal and freight rates will compel advances in other materials and force another complete turn of the wage-price circle that will again confront industry with compensating wage demands. There appears to be a growing disrespect for OPA, and its removal is expected by many.

There is not the slightest indication of a change to a buyers' market, but the return of more normal conditions may well be what is necessary to restore the morale of business generally. The attitude today of many firms, in completely disregarding contractual obligations on price commitments, may some day cause big headaches to many sales managers.

**Employment**

Reports from all sections indicate a very drastic trend to lower employment. The change in trend from a month ago is, in the opinion of buyers, largely brought about by the far-reaching effects of the coal strike. Material shortages, unless soon remedied, will undoubtedly aggravate the situation, causing further unemployment.

Conditions on the west coast appear to be more stable than elsewhere, with no drastic changes over a month ago reported.

**General Situation**

A summary of reports from approximately one hundred industrial purchasing agents in the United States and Canada highlights one general conclusion:—Business is generally in a bad way; buyers are confused; sellers are either helpless or unwilling to stand by their commitments, and a return to sound business practices and ethics is badly needed. Highlights of some of the reports submitted, are quoted below:—

The trend indicates inventories are lower, mixed, and unbalanced.

The materials availability situation is bad, and very slight improvement is noted.

Consumer merchandise is being held from markets in anticipation of higher prices.

OPA is preventing decent or normal profits in many lines.

The price trend is definitely upward. There is positive evidence that manufactured goods are being withheld from shipment awaiting price increases.

Many items are no longer manufactured because they cannot be made at a profit.

Escalator clauses are being commonly used and often misused. Retroactive escalator clauses are being used to permit materials to flow to markets, at the same time insuring sellers will get advantage of any future increase in prices.

Labor difficulties are blocking reconversion.

Too much labor-union monopoly and government in business.

*—Continued on page 63*

## OPA Abolishment Asked in Senate

*OPD Washington Bureau*

Senator Tom Stewart of Tennessee has introduced a bill (S. 2215) to abolish the Office of Price Administration and transfer its functions relating to food commodities to the Department of Agriculture and those relating to rents and building materials to the National Housing Administration.

The bill provides that the Department of Agriculture may exercise the transferred functions only in cases where the commodity is in short supply.

## Gas Cylinders Exempt From Price Control

The Office of Price Administration announced the suspension of price control, effective May 22, over steel gas cylinders, asbestos textiles, and certain other types of industrial materials which do not substantially affect the cost of living or business costs.

Affected by the order are high and low pressure steel gas cylinders, which are used to transport oxygen, acetylene, propane and other bases, made by steel mills and fabricating companies. They are generally owned by the seller of the gas shipped in them and are returned when empty, it was explained. Since they may be used for 25 to 40 years, any price increase resulting from their suspension from control will be insignificant when amortized over this period of time, the agency said.

## Flat-Glass 'Trust' Pre-Trial June 17

A pre-trial conference has been set for June 17 in the trial of Libbey-Owens-Ford Company, and other flat-glass manufacturers, charged with restraint of trade and anti-trust law violations. The trial will be held in Federal Court, Toledo, Ohio, October 7.

Date of the pre-trial conference was selected May 18 after counsel for the defendants had denied the charges in an answer to the government's bill of complaint.

# *Washington Talks It Over*

## *The OPD Observer*

The Treasury Department has begun a comprehensive study of Federal tax procedure and has set up a committee of prominent authorities in the tax field to help out with the work. Although the study will not go as far as most people would like, such as simplification of the law to eliminate tax duplication and equalize the burden for all groups, it will aid in focusing attention on the need for changes in the law having to do with appeals.

The overall objective of the committee's study is to develop recommendations for improvements in the existing machinery for the judicial review of tax determinations of the Commissioner of Internal Revenue. It is hoped that such recommendations will lead to changes which will enable litigation in the tax field to be conducted as expeditiously and efficiently as possible in the interest of tax practitioners, the treasury, and the courts.

The study will also include an examination of the extent to which existing defects in procedure contribute to present tax litigation, with a view of suggesting changes designed to reduce the volume of such litigation. It should be of valuable assistance to congress in considering problems in the tax field.

### Doctor's Dispensing Exempt

The Food and Drug Administration's recent decree that the warning statements of manufacturers of dangerous drugs, such as thiouracil, must be transferred to the retail package, even when the drug is dispensed upon prescription, has presented physicians with a question of how they are affected by this ruling.

It is common practice, particularly in rural areas, for a doctor to carry a supply of various kinds of drugs with him when he calls on his patients and after diagnosing the illness to leave a small quantity with instructions when and how often it should be taken. The question arises whether the physician in such instances has to put on the package that he leaves with the patient a warning such as is required by the ruling.

The answer is "No," according to FDA, because the FDA does not have the authority to impose such a requirement on physicians. The agency's authority extends only to drugs which are offered for sale (section 301(k) of the food and drug act) and since physicians do not bill their patients separately for the drugs they leave but include this in the fee for the visit, they are not covered by the requirement.

### Surplus Disposal Rapped

The War Assets Administration can now claim the dubious distinction of being the most probed agency of the Federal government. No less than five congressional committees are now looking into the affairs of this agency for one reason or another, not counting a full-fledged investigation just ordered by the house that aims to turn the agency inside out before it is through.

The troubles that beset WAA do not stem from disgruntled veterans alone, although they have been the springboard for most of the congressional

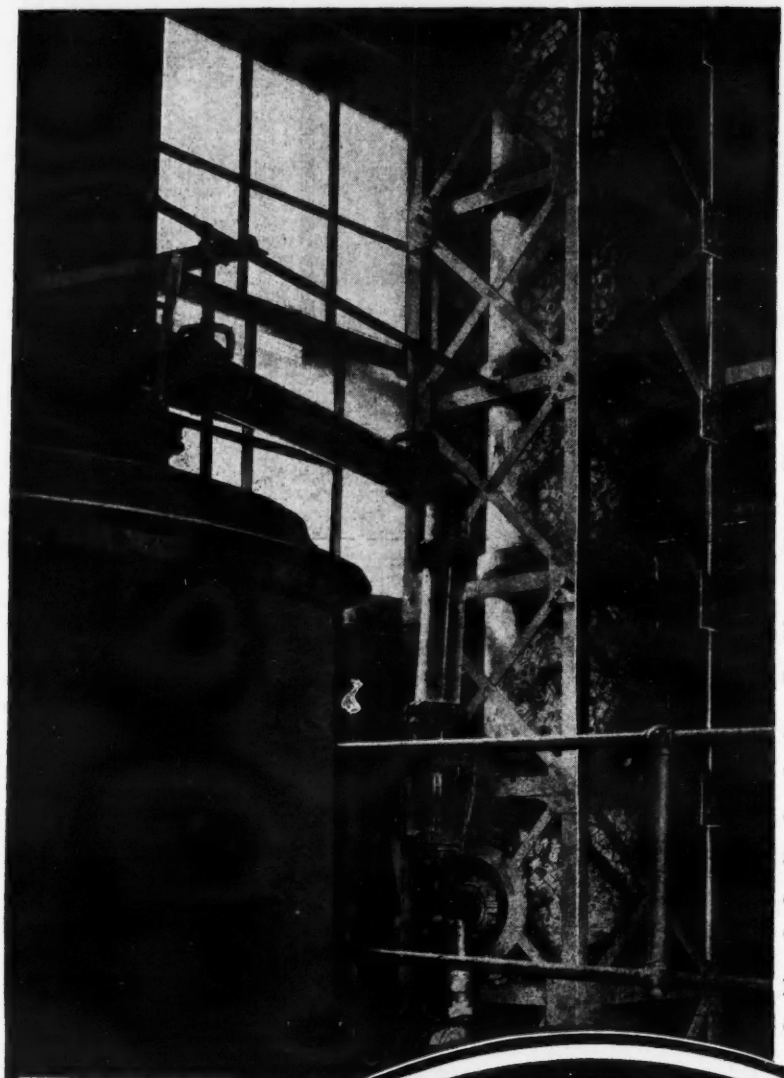
*—Continued on page 34*

## Durand, Gregg Named To Tariff Commission

*OPD Washington Bureau*

The senate has confirmed the nominations of Edward Dana Durand and John Price Gregg to be members of the United States Tariff Commission. Mr. Durand's appointment runs until June 16, 1952 while that of Mr. Gregg would expire June 16, 1947.

# What's NEW at NYQ



## ALL GLASS UNIT PROTECTS PURITY

**Bismuth Subsalicylate USP**
**Bismuth Subcarbonate USP**
**Bismuth Subnitrate USP**
**Bismuth Subgallate NF**

Keeping pace with the modern trend, we use stainless steel, stoneware and Pyrex equipment throughout for the development of these and other Bismuth compounds, solely as a safeguard against contamination.

Further progress is indicated by our thoroughly rigid and widesweeping controls. These controls begin with the selection of Bismuth metal, containing only minimum traces of impurities. They conclude when the finished compounds fully comply with existing quality standards and trade requirements for color, density, and composition.

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NYQ

*Symbol of Quality*

## Cottonseed Research Increase Recommended

A strong plea for expansion of research on the part of the National Cottonseed Products Association was sounded at the association's fifteenth annual convention, held at the Roosevelt hotel, New Orleans, May 20-22.

Another feature of the meeting was the election of Joe Flaig, of Simmons Mills, Lubbock, Tex., as president of the group for the term 1946-47.

E. D. Black, of Central Cotton Oil Company, Macon, Ga., outgoing president, in his annual report to the membership, strongly recommended greater participation by the association in the field of research. There are two general directions in which such expansion appears desirable, he said. First in work designed to secure a more adequate supply of raw materials, and secondly in the field of processing research.

Mr. Black said he would like to see added to the association staff a trained agronomist who would work with the experiment stations, seed breeders, the extension service and the mills, and a trained mechanical or chemical engineer, who would work closely with the established agencies equipped to conduct cottonseed processing research, with the mills, and with users or potential users of cottonseed products.

An authoritative reference volume, "The Chemistry and Technology of Cottonseed Products," is being compiled in cooperation with the technical advisory committee and the association staff, Mr. Black reported, and it is expected it will go to press within sixty to ninety days. He said the book will place within the reach of thousands of people a complete picture of the industry which now can

—*Continued on page 72*

## Mudge Gets Metals Society N.Y. Post

Dr. William A. Mudge, assistant director of the technical service of the development and research division of the International Nickel Company, New York, has been elected chairman of the New York chapter of the American Society for Metals.

## *AIC President*

**Foster D. Snell, president of Foster D. Snell, Inc., consulting chemist, Brooklyn, N. Y., has been elected president of the American Institute of Chemists.**

## Naval Research Office Legislation Approved

*OPD Washington Bureau*

Legislation authorizing the establishment of an Office of Naval Research in the Navy Department was passed by the house May 20.

The purpose of the bill (H.R. 5911) is to plan, foster, and encourage scientific research in recognition of its paramount importance as related to the maintenance of future naval power and the preservation of the national security; to provide within the department a single office, which, by contract and otherwise, shall be able to obtain, coordinate, and make available to all bureaus and activities of the department world-wide scientific information and the necessary services for conducting specialized and imaginative research; and to establish a Naval Research Advisory Committee consisting of persons preeminent in the fields of science and research.

## *Glass Containers Control Continued*

*OPD Washington Bureau*

With the current tin shortage and the coal strike intensifying an already critical shortage of glass containers, the Civilian Production Administration reported it will continue the present control on the manufacture of glass bottles, jars and containers of all types.

CPA announced that order L-103, setting up manufacturing standards and freezing designs of all types of glass containers, will remain in full force to take care of the food pack and to provide enough additional glass containers to package drugs, medicinals and other essential items.

## American-Swiss Scientific Unit Formed

The newly-formed American Swiss Foundation for Scientific Exchange, will sponsor trips by prominent American scientists to Switzerland and arrange for a similar number of top-flight Swiss specialists to visit centers of scientific work in this country.

During the year 1946 the following American scientists are invited to spend from six to eight weeks lecturing and visiting laboratories abroad: Dr. Robert C. Hockett, Scientific Director of the Sugar Research Foundation, Inc.; Dr. Robert R. Williams of the Nutrition Board of the National Research Council; Dr. Tom D. Spies of the Cincinnati General Hospital and the nutritional clinic of the Hillman General Hospital, Birmingham, Alabama; Conrad C. Elvehjem, Professor of Biochemistry at the University of Wisconsin and authority on nutrition; Dr. O. Kraier, physiologist at Harvard University, and Dr. C. N. H. Long, biochemist at Yale University.

Dr. Tadeus Reichstein, professor of pharmacy at the University of Basle, known for his synthesis of ascorbic acid, and Dr. Leopold Ruzicka, professor of organic chemistry at the Federal Institute of Technology, Zurich, 1939 Nobel prize winner, are the first Swiss scientists to renew their contacts in this country. Both are completing a six week tour of industrial laboratories and government projects, with lectures, conferences and trips to leading universities.

## Research Corp. Grants $175,000 to 29 Schools

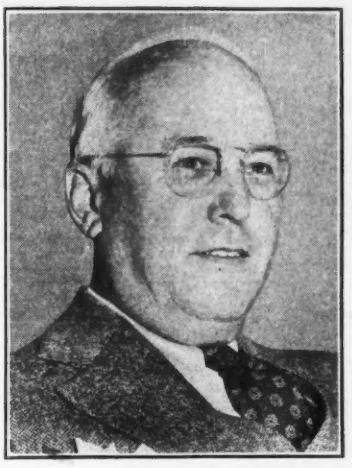
The Research Corporation will give grants-in-aid totalling $175,000 to twenty-nine universities for research in chemistry, nuclear physics and other scientific fields. The grants, known as the Frederick Gardner Cottrell special grants-in-aid, will provide for the first year of work under a new program.

## Fats, Oils Production Problems Discussed

Examination and consideration of wartime and postwar research developments in the chemistry of fats and oils and a symposium on solvent extraction featured the annual meeting of the American Oil Chemists's Society held in New Orleans.

S. O. Sorenson, of the Archer-Daniels—Midland Company, Minneapolis, who was first vice-president and membership chairman of the society last year, was elected president for the term 1946-47.

The solvent extraction symposium was opened by W. H. Goss, of Northern Regional Research Laboratory, Peoria, Ill., who said that the high efficiency of this process for oilseeds is offset, to some extent, by high investment costs, and in many cases it has not found commercial application because of technological difficulties.



**S. O. Sorenson**

In regard to cottonseed, C. H. Boatner, C. M. Hall, R. T. O'Connor and L. E. Castillon, of the Southern Regional Research Laboratory, presented a paper in which they said that the pigmentation of products prepared by solvent extraction of cottonseed has been shown to depend on three independent factors: the physical struc-

—*Continued on page 72*

## Chemical Warfare Ass'n Holds Annual Meeting

The first annual meeting of the newly formed Chemical Warfare Association was held May 24 and 25 at the Edgewood Arsenal, Md.

The group was addressed by Maj. Gen. Alden H. Waitt, chief of the Chemical Warfare Service on "Postwar Plans for Chemical Warfare," by Dr. W. A. Noyes, president-elect of the American Chemical Society, on "Chemical Research and Developments in World War II," and by Lt.-Gen. J. Lawton Collins, director of information of the War Department on "Major Lessons of World War II."

## *Association Meetings*

American Dairy Science Association, Ames, Ind., June 18-20.
American Leather Chemists Association, Lake George, N. Y., June 19-21.
American Pharmaceutical Manufacturers' Association, Chateau Lake Louise, Alberta, Canada, June 10-13.
American Plant Food Council, Hot Springs, Va., June 22-25.
American Society for Testing Materials, Statler hotel, Buffalo, N. Y., June 24-28.
American Society of Agricultural Engineers, St. Louis, June 24-26.
American Society of Refrigerating Engineers' Spring Meeting, St. Paul, Minn., June 2-5.
Chemical Institute of Canada, Royal York hotel, Toronto, June 24-26.
Flavoring Extract Manufacturers' Association, Drake hotel, Chicago, June 2-4.
Metal Powder Association, Waldorf-Astoria hotel, New York, June 13.
National Association of Chain Drug Stores, Manor Richelieu, Murray Bay, Canada, June 10-12.
National Association of Insecticide and Disinfectant Manufacturers, French Lick, Ind., June 17-19.
National Association of Purchasing Agents, Chicago, May 27-29.
National Fertilizer Association, French Lick, Ind., June 10-12.
Synthetic Organic Chemical Manufacturers Association, Seaview Country Club, Absecon, N. J., June 12-13.

# Industrial Applications of Chemicals and Related Materials

***"Where You Can Sell"***

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### Copper-Tetrathiophthalocyanin

**Dye**—Starting point (Brit. 541146) in making green dyes fast to washing, light, and bleaching agents.

### 6:6'-Dichlor-1:1'-dianthrimide

**Dye**—Starting point (U.S. 2151635) in making brown vat dye by fusing with sodium chloride and aluminum chloride at 150° to 165° C.

### Dicyclopentylidene Peroxide

**Plastics**—Starting point (U.S. 2298-405) in making ether-insoluble polymers.

### Dihydroxypropylaminoethyl-cellulose

**Adhesives**—Starting point (Brit. 489-668) in making waterproof adhesives.

**Bottling**—Starting point (Brit. 489-668) in making sizes (solutions in acids) for regenerated cellulose used for capping and sealing purposes (improves the anchorage thereto of printing inks and lacquers).

**Cellulose Products**—Starting point (Brit. 489668) in forming bristles, filaments, and self-supporting, clear, tough, and pliable films.

**Chemical**—Starting point (Brit. 489-668) in making addition salts with acids.

**Furniture**—Starting point (Brit. 489-668) in making waterproof adhesives for veneering purposes.

**Miscellaneous** — Ingredients (Brit. 489668) of coating compositions useful for various purposes.

**Rubber**—Starting point (Brit. 489-668) in making sizes (solutions in acids) for rayon tire cord (used to improve its adhesion to rubber).

### Dimethyl Fumarate

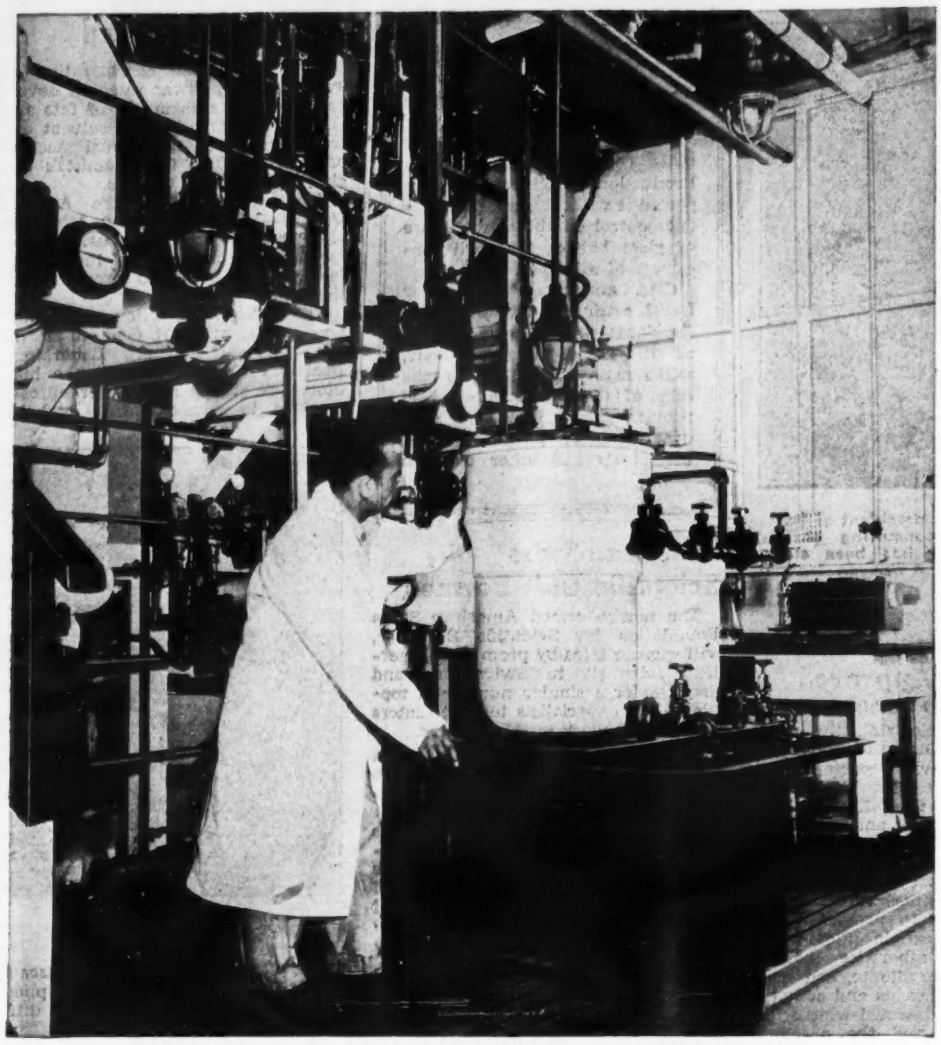
**Fats, Oils, and Waxes**—Antioxidant for fats and vegetable oils (butterfat, and olive, corn, castor, and poppyseed oils) at 1:1000 concentrations.

### Diphenylguanidin

*(Additional uses—see the book, Uses and Applications of Chemicals and Related Materials.)*

## *Elected Vice-Presidents of du Pont*

**Dr. Crawford H. Greenewalt (left) and Walter J. Beadle have been elected vice-presidents of E. I. du Pont de Nemours & Co., Wilmington, Del. Dr. Greenewalt, assistant general manager of the company's pigments department, succeeds Jasper E. Crane, who has retired as vice-president and member of the executive committee. Mr. Beadle, first assistant treasurer of the company, succeeds James B. Eliason, who has retired as vice-president and treasurer.**



Final stage in the purification of penicillin—the removal of pyrogens by filtration of the penicillin concentrate.

# A GLIMPSE AT THE RECORD

**IN 1940** Merck research on antibiotics concentrated on Penicillin.

**IN 1941** Merck brought about a reciprocal arrangement between British and American investigators to spur the production of Penicillin in co-operation with the United States and British governments.

**IN 1942** Merck supplied Penicillin for the first case of bacteriemia successfully treated with this drug in the United States.

**IN 1943** Merck sent shipments of Penicillin to England by air transport for urgent therapeutic use by the United States Army Medical Corps.

**IN 1944 AND 1945** Merck produced ever-increasing supplies of Penicillin for our Armed Forces.

**AND NOW,** Merck production of Penicillin has reached a point where, in addition to meeting continuing military requirements, large quantities are being produced for civilian medical needs.

★ ★ ★

Penicillin Merck meets the recognized high standard of quality established for all Merck products. It is subjected to repeated tests and control procedures throughout every step of the production process, and the finished product is assayed, tested, and approved under rigid standards established by the Food and Drug Administration and by the Merck Analytical Laboratories.

★ ★ ★

PENICILLIN
MERCK

ACCEPTED AMERICAN MEDICAL ASSN

Council Accepted

*Literature on request*

**MERCK & CO., Inc.** *Manufacturing Chemists* **RAHWAY, N. J.**

*In Canada:* MERCK & CO., Ltd., Montreal • Toronto • Valleyfield

# Current Market Quotations Chemicals and Related Materials

## May 23, 1946

**Unless otherwise indicated, quotations are first-hands on large lots, f.o.b. New York. Price changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.**

**All matters under this heading fully protected by copyright.**

### A

Acacia (see Gum, Arabic).

Acetaldehyde, 99%, dms., 55 gals., works..lb. .11 - —
5 and 10 gals., works....lb. .14 - —

Acetaldol (see Aldol).

Acetamide, CP, fib. dms., 5,000 lbs. a year, works..lb. .36 - —
smaller lots, works.....lb. .38 - .70
tech., fib. dms., 5,000 lbs. a year, works..lb. .28 - —
smaller lots, works.....lb. .30 - .50

Acetanilide, tech., cryst., bbls.lb. .29 - .31
powd., bbls.....lb. .27 - .29
USP, cryst., bbls.....lb. .36 - .37
kgs. .....lb. .37 - .39
powd., bbls.....lb. .34 - .35
kgs. .....lb. .35 - .37

Acetic anhydride, dms., c.l., frt. alld..lb. .11¼- —
l.c.l., frt. alld.....lb. .13 - —

Acetoacetanilide, bbls., dms...lb. .49 - .67

Acetone, CP,[1] dms., c.l., divd.lb. .07 - —
l.c.l., divd.....lb. .07½- —
tanks, divd.....lb. .06 - —
Methyl (see M).

Acetonitrile, dms., c.l., works..lb. .35 - —
l.c.l., works.....lb. .40 - —
5-gal. lots, works.....lb. .45 - —
less than 5-gal. lots, works..lb. .50 - —

Acetophenetidin, USP, bbls., kgs., 1,000-lb. lots..lb. 1.00 - —
dms. .....lb. 1.06 - 1.10

Acetophenone, cns., dms.....lb. 1.50 - 1.75

Acetyl chloride, cbys., works..lb. .60 - —

Acid, abietic, dms., c.l., wks...lb. .07½- —

Acetic,[1] com'l or redist., 28%, bbls..100 lbs. 3.88 - 3.63
50%, bbls.....100 lbs. 5.58 - 5.63
70%, bbls.....100 lbs. 6.68 - 6.98
80%, bbls.....100 lbs. 7.47 - 7.72
99.5%, bbls.....100 lbs. 9.15 - 9.40
glacial, nat., c.p., dms., works, 100 lbs.12.50 -13.25
99.5%, bbls.....100 lbs. 9.15 - 9.40
tanks .....100 lbs. 6.98 - 7.25
synth., tech., bbls., works, 100 lbs. 9.15 - 9.40
dms., works.....100 lbs. 9.25 - 9.75
tanks, works....100 lbs. 6.98 - 7.25
USP, dms., works..100 lbs.10.50 -11.00
pure, 30%, bbls.....100 lbs. 4.41 - 4.69
50%, bbls.....100 lbs. 4.86 - 5.11
60%, bbls.....100 lbs. 7.00 - 7.35
80%, bbls.....100 lbs. 9.25 - 9.51
USP, 36%, cbys.....lb. .08 - .10

Acetic acid price ranges above are for c.l. and l.c.l. quantities. Carboys and cases are 50c. per 100 lbs. higher.

Acetic anhydride (see Acetic anhydride).

Acetylsalicylic,[1] special, USP, bbls., makers, primary distrib., point of shipm't, 100-lb. lots..lb. .45 - —
smaller lots.....lb. .46 - .50
standard USF, fine cryst., gran. (20-40 mesh), powd. (80 mesh), bbls., same basis, lb. .40 - .54

Freight equal'd, shipment identical quantity over standard routes, from N. Y. City, Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., works.....lb. .26¼- —

Aminoacetic, USP (see Glycine).

Anthranilic, resub., bbls.....lb. 1.20 - 1.25
tech., bbls.....lb. .95 - —

Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs....lb. .20 - .22

Ascorbic,[1] USP, dms., 500-kilo lots..kilo.24.50 - —
25-50 kilo lots.....kilo.25.00 - —
10-kilo lots.....kilo.25.35 - —
5-kilo lots.....kilo.25.70 - —
bots., kilo lots.....kilo.26.41 - —
500 grams.....kilo.27.47 - —

Battery, cbys., c.l., E. works.. 100 lbs. 1.60 - —
l.c.l., E. works.....100 lbs. 1.95 - 2.55

Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. up..lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .56 - .59
dms., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,000 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59

Betaoxynaphthoic, bbls., works. lb. .95 - —

Boric, tech., 99.5% cryst. (same as prices for powder). gran., bgs., c.l., frt. alld.. ton.99.00 - —
ton lots, ex whse..ton.111.00 - —
less than ton lots, ex whse..ton.116.00 - —
bbls., c.l., frt. alld..ton.109.00 - —
ton lots, ex whse..ton.121.00 - —
less than ton lots, ex whse..ton.126.00 - —
bulk, frt. alld.....ton. 95.50 - —
powd., bgs., c.l., frt. alld.. ton.104.00 - —
ton lots, ex whse..ton.116.00 - —
less than ton lots, ex whse..ton.121.00 - —
bbls., c.l., frt. alld..ton.114.00 - —
ton lots, ex whse..ton.126.00 - —
less than ton lots, ex whse..ton.131.00 - —
USP $25 per ton higher.

Butyric, 90%, dms., c.l., works, lb. .29 - —
l.c.l., same basis.....lb. .30 - —

Broenner's bbls.....lb. 1.11 - —

Acid, cacodylic, bots.....lb.13.50 -14.50
Camphoric, cns.....lb. 6.95 - 7.00
Caprylic, 99%, dms.....lb. No stocks
Capric, tech., ret. dms.....lb. No stocks
Castor oil,[1] split, ret. dms...lb. No stocks
Chlorosulphonic, dms., c.l., works..lb. .03 - —
l.c.l., works.....lb. .03½- .04½
tanks, works.....lb. .02½- —
Chromic, 99½-99¾%, dms., c.l., lb. .17 - —
l.c.l. .....lb. .17½- .19
Cinnamic, refd., bots.....lb. 3.00 - 3.25
Citric, anhyd., gran., dms., c.l..lb. .22½- —
l.c.l., 10,000 lbs. 1 ship't, lb. .23 - —
smaller lots.....lb. .23½- .26½
kgs. .....lb. .23½- .26¾
USP, cryst., gran., bbls., c.l. lb. .20 - —
l.c.l., 10,000 lbs. 1 ship't, lb. .20½- —
smaller lots, bbls...lb. .21 - —
dms. .....lb. .23 - .24
kgs. .....lb. .21½- —
powdered citric acid, ½c. higher.
Cleve's, bbls.....lb. .65 - —
Coconut oil,[1] dist., dms.....lb. .17½- .19½
Corn oil,[1] s.d., dms., c.l., wks. lb. .12 - —
Cottonseed oil,[1] s.d., dms., c.l. c.l..lb. .12 - .13
tanks, divd.....lb. .11¼- .12¼
Cresylic, dom. coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald..gal. .81 - .96
l.c.l., same basis....gal. .83 - .98
tanks .....gal. .75 - .90
Petroleum, heavy grade (247°-298°), dms., 20, Cal. ref..gal. .490 - —
Sewaren, N. J., ref.. gal. .616 - —
1-19, Cal. ref.....gal. .510 - —
Sewaren, N. J., ref.. gal. .636 - —
tanks, divd.....gal. .586 - —
light grade (200°-240°), tanks, Cal. ref..gal. .690 - —
medium grade (220°-240°), dms., 20, Cal. ref..gal. .50 - —
Sewaren, N. J., ref.. gal. .636 - —
1-19, Cal. ref.....gal. .570 - —
Sewaren, N. J., ref.. gal. .696 - —
tanks, divd.....gal. .646 - —
Crotonic, bbls., Canadian, wks., lb. .25 - —

Dichlorophenyoxyacetic, fib. dms., c.l., works..lb. .80 - —
l.c.l., works.....lb. .85 - .95
Salt, fib., dms., c.l., works..lb. 1.00 - —
l.c.l., works.....lb. 1.10 - 1.20

Diethylbarbituric (see Barbital).
F (see Acid, monosulphonic).
Formic, 85%, cbys., c.l., wks.lb. .10 - —
l.c.l., works.....lb. .10½- .11
90%, cbys., c.l., works....lb. .10½- —
l.c.l., works.....lb. .11 - .11½
Fumaric, tech., bbls., dms..lb. .27 - .31
Gallic, NF V, bbls.....lb. 1.27 - 1.30
fib. dms.....lb. 1.32 - —
technical, bbls.....lb. 1.10 - 1.15
Gamma, bbls.....lb. .95 - —
Gluconic, tech., 50%, bbls....lb. .12 - —
dmjn. .....lb. .21 - .23
kgs. .....lb. .14 - .15
Glutamic hydrochloride, dms. lb. 2.00 - 2.40

Glycolic (see Acid, hydroxyacetic).
H, bbls.....lb. .43½- .45
Hydriodic, 45-47%, cbys.....lb. 2.42 - 2.44
5-lb. bots.....lb. 2.57 - —
57%, bots.....lb. 2.90 - —
Hydrobromic, medicinal, 48%, cbys., divd.E..lb. .48 - —
tech., 48%, cbys., same basis. lb. .45 - —
34%, cbys., same basis.....lb. .35 - .37
Hydrochloric (see Acid, Muriatic).
Hydrocyanic, cyls., works...lb. .80 - 1.00
NF, dilute, 2%, 5-lb. bots..lb. .80 - .94
Hydrofluoric, anhyd., cyls., wks. lb. .19 - .19½
tanks, works.....lb. .16 - —
30%, rubber dms., works..lb. .08 - .09
48%, rubber dms., works..lb. .12 - —
52%, rubber dms., works..lb. .12¾- —
60%, rubber dms., works..lb. .13½- —
Hydrofluosilicic, 30-35%, bbls.lb. .08 - .09
Hydroxyacetic, 70% tech., bbls., non-returnable. Phila..lb. .084 - —
tanks, Belle, W. Va., acid basis..lb. .06½- —
Hypophosphorous, USP, djns. lb. .75 - .77
Lactic, edible, 50%, cbys., 20 or more..lb. .12½- —
smaller lots.....lb. .13 - .13½
80%, bbls., 5 or less.....lb. .24½- .24¾
plastic grade, 50%, bbls., cbys., 20 or more..lb. .14½- —
10 or less.....lb. .14¾- .15¼
80%, bbls., cbys., 5 or less. lb. .26 - .26¼
tech., dark, 22%, bbls., c.l., works..100 lbs. 2.90 - —
l.c.l., works....100 lbs. 3.15 - —
cbys., works.....100 lbs. 4.15 - —
44%, bbls., c.l., works... 100 lbs. 6.30 - —
l.c.l., bbls., works.... 100 lbs. 6.55 - —
cbys., works.....100 lbs. 7.55 - —
light, 22%, bbls., c.l., works. 100 lbs. 3.90 - —
l.c.l., works....100 lbs. 4.15 - —
cbys., works.....100 lbs. 5.15 - —
44%, bbls., c.l., works.... 100 lbs. 7.30 - —
l.c.l., works.....100 lbs. 7.55 - —
cbys., works.....100 lbs. 8.55 - —
USP XII, 85%, cbys.....lb. .54 - .57
USP XVII, 75%, cbys.....lb. .52 - .55

Acid, lauric, dist., 95%, dms.lb. .23 - —
Laurent's, bbls.....lb. .45 - —
Linseed oil,[1,7] light, dms...lb. .21½- .23
Maleic, powd., dms.....lb. .30 - —
Anhydride (see M).
Malic, powd., kgs.....lb. .47 - —
Mandelic, USP, dms., 1,000 lb. lots, works..lb. 2.05 - —
smaller lots.....lb. 2.10 - 2.30
Mixed, tanks, nitric unit....lb. .05 - .06
sulphuric unit.....lb. .0085- .009
Molybdic,[1] kgs., works.....lb. .95 - 1.10
Monochloracetic, tech., flakes, 96-97%, dms..lb. .16½- —
purified, flake, 99%, dms...lb. .20 - —
Monosulphonic, bbls.....lb. 1.50 - —
Muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.50 - —
l.c.l., E. works....100 lbs. 1.75 - 2.45
tanks, works.....100 lbs. 1.05 - —
20°, cbys., c.l., E. works.... 100 lbs. 1.75 - —
tanks, E works.....ton.22.00 - —
22°, cbys., c.l., E. works.... 100 lbs. 2.25 - —
tanks, E. works.....ton.32.00 - —
CP, USP, consumers, cbys. extra..lb. .08 - —
6-lb. bots., extra.....lb. .10 - —
dealers, cbys. extra....lb. .06½- —
6-lb. bots., extra.....lb. .08¼- —
Myristic, dist., dms.....lb. No stocks
Naphthenic, 210-220 acidity, dms., extra, works..lb. .10¾- —
tanks, works.....lb. .09 - —
230-245 acidity, dms., extra, works..lb. .12¾- —
tanks, c.l., works.....lb. .12 - —
Nicotinic, USP, dms, works. kilo. 6.50 - 6.80
Nicotinic amide (see Nicotinamide).
Nitric, 36°, cbys., c.l., E. works..100 lbs. 5.00 - —
l.c.l., 25, E., works.100 lbs. 5.25 - —
10 to 24, works....100 lbs. 5.35 - —
1 to 9, works....100 lbs. 5.95 - —
38°, cbys., c.l., E. works.... 100 lbs. 5.50 - —
Western works...100 lbs. 5.75 - —
40°, cbys., c.l., E. works.... 100 lbs. 6.00 - —
42°, cbys., c.l., E. works.... 100 lbs. 6.50 - —
CP, USP, consumers, cbys. extra..lb. .13 - —
7-lb. bots., cs., extra, lb. .15 - —
dealers, cbys. extra....lb. .11½- —
7-lb. bots., cs., extra..lb. .13½- —
Oleic (see Oil, red).
Oleum (see Acid, sulphuric, fuming).
Oxalic,[1] bbls., c.l., works....lb. .11¼- —
10,000 lbs.....lb. .11½- —
smaller lots.....lb. .12½- —
Palm oil,[2] white, dist., dms..lb. No stocks
Para-aminobenzoic, cns.....lb. 1.40 - —
Paranitrobenzoic, cns.....lb. .72 - —
Paratoluidinmetasulphonic, bbls., works..lb. .80 - —
Peanut oil,[1] s.d., tanks, works, lb. .11¼- —
Phenylacetic, bots.....lb. 1.65 - 1.85
Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald..100 lbs. 4.00 - 4.25
cbys., c.l., works, frt. equald..100 lbs. 4.35 - 4.60
l.c.l., works, frt. alld., 100 lbs. 5.25 - 7.25
tankwagon, divd. N. Y., Phila. Met. area..100 lbs. 4.00 - —
75%, bbls., c.l., works, frt. equald..100 lbs. 4.75 - 5.00
cbys., c.l., works, frt. equald..100 lbs. 5.10 - 5.35
l.c.l., frt. alld....100 lbs. 7.00 - 9.50
tanks, works, frt. equald., 100 lbs. 4.00 - 4.25
tankwagon, divd. N. Y., Phila. Met. area..100 lbs. 4.75 - —
USP, 100-lb. cbys., c.l.....lb. .10½- —
10 cbys. to c.l.....lb. .11½- —
2 to 9 cbys.....lb. .12 - —
single cbys.....lb. .13 - —
70-lb. cbys.....lb. .10½- —
25 cbys. to c.l.....lb. .11½- —
5 to 24 cbys.....lb. .12 - —
1 to 4 cbys.....lb. .13 - —
dilut., 10%, cbys., djns...lb. .07 - .07½
Picramic, kgs.....lb. .65 - .70
Picric, bbls.....lb. .35 - —
Propionic,[1] synth., pure, dms., works..lb. .19½- —
tanks, works.....lb. .18½- —
Pyrogallic, tech., bbls.....lb. 1.45 - 2.08
USP, cryst., dms.....lb. 2.10 - 2.15
resub., dms.....lb. 2.00 - 2.05
Pyroligneous, dms., divd. E.. gal. .30 - —
Ricinoleic, com'l split (see Acid, castor oil, split).
Salicylic,[1] tech., bbls., c.l...lb. .38 - —
100 lbs. to c.l.....lb. .33 - —
smaller lots.....lb. .34 - .42
USP, bbls., c.l.....lb. .28 - —
100 lbs. to c.l.....lb. .35 - —
smaller lots.....lb. .36 - .44
Sebacic, tech., dms., c.l., works. lb. .50 - —
l.c.l., works.....lb. .51 - .52
Soybean oil,[1] s.d., dms., works. lb. .11¾- .16½
tanks, works.....lb. .11 - .15¾
Stearic,[1] double pressed, bgs., c.l., divd. E. Rockies..lb. .15¾- —
W. of Rockies.....lb. .16¾- —
Texas and Okla., divd., lb. .16¾- —
single pressed, bgs., c.l., divd. E. of Rockies..lb. .15¾- —
W. of Rockies.....lb. .15¾- —
Texas and Okla., divd., lb. .15¾- —
triple pressed, bgs., c.l., divd. E. of Rockies..lb. .15¾- —
W. of Rockies.....lb. .15¾- —
Texas and Okla., divd., lb. .15¼- —

Stearic acid l.c.l. prices are:—Ton lots, ½c. per lb. higher; less than ton lots, 1c. higher.

Succinic, bbls.....lb. .75 - —
Sulphanilic, CP, bots., works.lb. 1.60 - 1.63
tech., dms., works.....lb. .17 - —
Sulphuric, 60°, cbys., c.l., E. works..100 lbs. 1.25 - —
l.c.l. .....100 lbs. 1.50 - 2.20
tanks, E. works.....ton.13.00 - —
66°, cbys., c.l., E. works.... 100 lbs. 1.50 - —
tanks, E. works.....ton.16.50 - —
98°, tanks, works.....ton.17.00 - —

Acid, sulphuric, CP, USP, consumers cbys. extra..lb. .08 - —
9-lb. bots., cs. extra..lb. .10 - —
dealers, cbys. extra....lb. .06½- —
9-lb. bots., cs. extra..lb. .08½- —
fuming, 20%, tanks, E. works, ton.19.50 - —
Tannic, tech., bbls., dms....lb. .71 - .73
USP, fluffy, bbls., 1,000 lbs.. lb. 1.33 - —
smaller lots.....lb. 1.35 - 1.38
powder, bbls., 1,000 lbs..lb. 1.13 - —
smaller lots.....lb. 1.15 - —
Tartaric,[1] USP, cryst., gran., powd., bbls., 10,000 lbs., 1 ship't..lb. .62½- —
smaller lots.....lb. .63 - —
kgs. .....lb. .63½- —
Thioglycolic, bbls., cbys., basis 100%..lb. 2.00 - 3.00
Tobias, bbls.....lb. .55 - .60
Trichloroacetic, bots.....lb. 2.09 - 2.50
Tungstic,[1] CP, 100-lb. pkgs....lb. 2.94 - 3.10
pure, 100-lb. kgs.....lb. 2.86 - —
Aconite leaves, bls.....lb. 1.10 - 1.40
Root, bls.....lb. 1.30 - 1.35
Aconitine, amorph., bots.....oz.23.00 - 28.00
15-gr. vials.....vial. 1.00 - —
cryst., bots.....oz.42.00 -48.00
15-gr. vials.....vial. 1.60 - —
Acrylonitrile, dms., c.l., works, lb. .26 - —
l.c.l., works.....lb. .26½- —
tanks, rorks.....lb. .25 - —
Adeps lanae,[1] USP, anhyd., cosmetic, dms., works..lb. .33 - .34
pharmaceutical, dms., works, lb. .32 - .33
Agar .....lb. 3.50 - —
San Diego, Cal.....lb. 3.00 - —
Agaric, white, bls.....lb. 2.85 - 2.90
Albumen, blood, dark (see Blood, soluble).
light, dms., Chicago.....lb. .65 - .70
egg, edible,[1,7] powd., bbls....lb. 1.99 - 2.07
granular, cryst., bbls.....lb. 1.94 - 2.02
tech., cryst., bbls.....lb. 1.00 - 1.50
Alcohol, allyl, dms., c.l., divd.lb. .21 - —
l.c.l., divd.....lb. .21½- —
tankcars, divd.....lb. .20 - —
Amyl ex pentane, dms., c.l., frt. alld. E. of Miss. R. lb. .141 - —
l.c.l., frt. alld.....lb. .151 - —
tanks, frt. alld.....lb. .131 - —
(see also Fusel oil, ref.).
Benzyl, cns.....lb. .70 - .75
dms. .....lb. .95 - —
Butyl, normal,[1] ferment, 111., Ind. prod., dms., c.l., frt. alld..lb. .2310-
l.c.l., frt. alld. E....lb. .2360-
tanks, frt. alld. E....lb. .2210-
tankwagons, frt. alld.lb. .2290-
other production, dms., c.l., frt. alld. E..lb. .1950-
l.c.l., frt. alld. E....lb. .2000-
tanks, frt. alld. E....lb. .1850-
synthetic, dms., c.l., frt. alld. E..lb. .11¾- —
l.c.l., frt. alld. E....lb. .12¼- —
tanks, frt. alld. E.....lb. .10¾- —

Normal butyl alcohol prices in West, ½c. per lb. higher.

secondary, dms., c.l., divd.lb. .095 - —
l.c.l., divd.....lb. .10 - —
tanks, divd.....lb. .09½- —
tertiary, denat., dms., c.l..lb. .12½- —
l.c.l., dms.....lb. .13 - —
tanks .....lb. .11 - —
Capryl, dms., c.l., works...lb. .17½- —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16 - —
Cetyl, dom., CP, fiber ctns., 1,000 lbs. 1.75 - 1.80
smaller lots.....lb. 1.95 - 2.30
Cinnamic, bots.....lb. 3.00 - 3.55
Denatured,[1,7] CD14, cms., c.l., works, E..gal. .613 - —
l.c.l., works, E.....gal. .633 - .668
tanks, E. divd.....gal. .543 - —

Tankcar sales require written authorization by Alcohol Tax Unit.

SD1, 190 pf., dms., c.l., E. works..gal. .612 - —
l.c.l., works, E.....gal. .632 - .669
tanks, E. works.....gal. .542 - —
Anhydrous 5c. per gal. higher.
SD2B, dms., c.l., wks., E.gal. .60½- —
l.c.l., works, E.....gal. .62½- .65½
tanks, E. works.....gal. .53½- —
SD2SG, dms., c.l., works..gal. .662 - —
l.c.l., works.....gal. .672 - —
tanks, works.....gal. .583 - —
SD23H, dms., c.l.....gal. .61 - —
l.c.l., works, E.....gal. .62 - .65½
tanks, E. works.....gal. .54 - —
SD29, denatured, with acetaldehyde, dms., c.l., E. works. gal. .62 - —
l.c.l., works, E.....gal. .66½- .69½
tanks, E. works.....gal. .55 - —

When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those for SD2S plus 1½c. per gal. denaturing charge.

Special solvent, dms., c.l., works, E..gal. .69 - —
l.c.l., works, E.....gal. .65 - .69
tanks, E. works.....gal. .56 - —

Tankcar sales require written authorization by Alcohol Tax Unit.

## Controls on Materials

**Applications of WPB, OPA and WFA regulations to materials listed in this section are indicated by superior figures as follows:—**

**[1]—Specific price ceiling**

**[2]—Price agreement (sellers with OPA)**

**[3]—General Limitation Order**

**[4]—General Preference Order**

**[5]—Conservation Order**

**[6]—Allocation**

**[7]—War Food Order**

Alcohol, diacetone, acetone-free, dms., c.l., divd..lb. .11½- .14½
l.c.l., divd.....lb. .12 - .15
tanks, divd.....lb. .10½- .13½
tech., dms., c.l., divd.....lb. .11 - .13½
l.c.l., divd.....lb. .11½- .14
tanks, divd.....lb. .10 - .12½
Ethyl, 190 pf., dms., c.l., wks. gal.17.72½- —
l.c.l., works.....gal.17.76 -17.79
tanks .....gal.17.68½- —
absolute, dms., c.l., works.gal.18.67½- —
l.c.l., works.....gal.18.71 -18.74
tanks .....gal.18.60½- —
Ethylhexyl, dms., c.l., works.lb. .34 - —
l.c.l., works.....lb. .35 - —
tanks, works.....lb. .33 - —
Furfuryl, tech., cns., works.lb. .35 - —
dms., c.l., works .....lb. .22½- —
l.c.l., works .....lb. .35 - —
tanks, works .....lb. .19 - —
Isoamyl (see Carbinol, isobutyl).
Isobutyl, refd., dms., works..lb. .0600- —
tanks, works.....lb. .0760- —
Isopropyl, refd., 91%, dms., incl., c.l., divd..gal. .38 - —
l.c.l., divd.....gal. .41 - —
tanks, divd.....gal. .31½- —
99%, dms., incl., c.l., divd.. gal. .41½- —
l.c.l., divd.....gal. .44½- —
tanks, divd.....gal. .35 - —
Methyl (see Methanol).
Methylamyl (see Carbinol methylisobutyl)
Octyl (see Alcohol, ethylhexyl).
Phenylethyl, dms.....lb. 2.30 - 2.75
Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .68 - .70
type B, fiber-pack, same basis. lb. .69 - .62
Propyl, normal, dms., works.gal. .67 - —
smaller containers, works, gal. .69 - —
tanks, works .....gal. .60 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia...lb. .35 - —
dms., c.l., Waverly, N. Y...lb. .40 - —
l.c.l., same basis.....lb. .50 - —
Aldol, dms., works.....lb. .13 - .15
denaturing grade, dms.....gal. 1.20 - —
Aletris root, bgs.....lb. 2.75 - 3.00
Algarobilla,[1] c.l., ex dock.... long ton.80.00 -83.50
Algarobilla price based on ocean frt. at $12 and $1 insurance per long ton.
Algin, bbls., fib. dms.....lb. .74 - 1.00
Alizarin (see Red, alizarin).
Alkanet, root, bgs.....lb. .85 - .90
Allspice,[1] Mexican, futures, bgs., lb. .18 - .18½
Allyl bromide, cbys., 5,000 lbs., works..lb. .80 - —
smaller lots, works.....lb. 1.05 - 1.10
Chloride, dms., c.l., divd....lb. .12½- —
l.c.l., divd.....lb. .14 - —
tanks, divd.....lb. .12½- —
Aloe, Cape, cs.....lb. No stocks
Curacao, kgs.....lb. .47 - .48
Socotrine, kgs.....lb. .43 nom
Aloin, bbls., dms., kgs.....lb. 4.50 - 4.60
Alphanaphthol, bbls.....lb. .53 - —
Alphanaphthylamine, bbls.....lb. .52 - —
Alphapicoline, ref. dms., works, frt. equald...lb. .38½- .39¼
Alphapinene, dms., c.l., wks..gal. .89½- —
l.c.l., works.....gal. .91½- —
tanks, works.....gal. .86½- —
Alphaterpineol, dms., c.l., works. lb. .1840- —
l.c.l., works.....lb. .1390- —
tanks, works.....lb. .1200- —
Alphatocopherol, amp.....gram. 1.00 - 1.10
Althea root, NF, peeled, bls...lb. .55 - .60
Alum, ammonia, burnt, USP, bbls., kgs..lb. .16 - .18
gran., bbls., works....100 lbs. 4.00 - —
divd., N. Y., Phil..100 lbs. 4.00 - —
lump, bbls., works....100 lbs. 4.25 - —
divd., N. Y., Phil..100 lbs. 4.25 - —
pewd., bbls., works....100 lbs. 4.40 - —
divd., N. Y., Phil..100 lbs. 4.40 - —
Potash, gran., bbls., works. 100 lbs. 4.25 - —
divd., N. Y., Phil..100 lbs. 4.25 - —
lump, bbls., works....100 lbs. 4.50 - —
divd., N. Y., Phil..100 lbs. 4.50 - —
pewd., bbls., works....100 lbs. 4.65 - —
divd., N. Y., Phil..100 lbs. 4.65 - —
Potash-chrome, bbls.....lb. 12½- .15
Soda, bbls., c.l., works..100 lbs. 3.25 - —
l.c.l., divd.....100 lbs. 4.25 - 5.00
Alumina, classified, grade, ground, kgs., works..lb. .35 - .67
top grade, ground, kgs., works lb. .60 - .67
unclassified, ground, kgs., works..lb. .16½- .46
Acetate, basic solution, 24%, bbls., divd..lb. 10½- .11
20%, bbls., divd.....lb. .09½- .10
Chloride, anhyd., com'l. dms., c.l., works..lb. .08 - .11
l.c.l., works.....lb. .09 - .12
cryst., com'l, dms., c.l., works. lb. .06 - —
l.c.l., works.....lb. 06½- .09¾
solution, 32 deg., cryst., c.l., works..lb. .02¾- —
l.c.l., works.....lb. 03½- —
Fluoride, tech., bbls.....lb. .25 - —
Formate, solution, 12-20° Be, bbls., c.l., works, f.o.b. equaled Phila. and Chi.lb. .09½- —
l.c.l., works, same basis, lb. .10 - —
Hydrate, heavy bgs., c.l., works. lb. .024- .031
l.c.l., works.....lb. .035- .046
light, bgs., divd.....lb. .14½- —
bbls., divd.....lb. .15 - —
Hydroxide, gel, tech., min. 15% Al (OH$_3$), dms., 10,000 lbs. or more, f.o.b. ship't point..lb. .08 - .08¼
ton lots, same basis..lb. .08¼- .08¾
smaller lots, same basis, lb. .09¾- .94
conc., 9-9½% $Al_2O_3$, fib. dms., works..lb. .17¾- —
contract, works.....lb. .16¾- —
14-15% $Al_2O_3$, fib. dms., wks..lb. .20¾- —
contract, works.....lb. .19¾- —
dried, USP XII, fib. dms., works..lb. .72 - —
contract, works.....lb. .75 - —
powder, tech. (see Alumina hydrate).
USP IX, bbls., dms.....lb. .15 - .17
Laurate, precip., bbls.....lb. .33 - .36
Naphthenate, 1.7% Al, 50-gal. dms., works..lb. .19¾- —
Oleate, dms., contract.....lb. .24½- —
Resinate, precip., dms.....lb. .18½- —
Stearate, precip., cts., c.l...lb. .32 - —
l.c.l. .....lb. .34 - —
Sulphate, com'l, bgs., c.l., works, frt. equald..100 lbs. 1.15 - 1.20
l.c.l., works, frt. equald... 100 lbs. 1.40 - 1.90
bbls., c.l., works, frt. equald. 100 lbs. 1.95 - 1.40
l.c.l., works, frt. equald. 100 lbs. 1.60 - 1.70
Alumina sulphate, iron-free, bgs., c.l., works..100 lbs. 1.75 - —
l.c.l., works.....100 lbs. 2.00 - —
(Trihydrate, heavy (see Alumina hydrate).
Aluminum, 98-99%, c.l.....lb. .15 - —
l.c.l. .....lb. .15 - .16
Paste, lining, extra fine, 200-lb. dms..lb. .56 - .60
ink, 150-lb. dms.....lb. .71 - —
standard, 200-lb. dms.....lb. .58 - —
Powder, lining, extra, fine, 150 lb. dms..lb. .52 - —
litho, 150-lb. dms.....lb. .60 - —
standard, 200-lb. dms..lb. .62 - —
rubber comp., 200-lb. dms..lb. .42 - —
unpolished, stand., dms...lb. .38 - —
varnish, stand., 300-lb. dms.. lb. .42 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 20,000 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Ambergris, gray, tins.....oz. 9.75 -12.00
Aminoethylpropanol, cns., dms., works..lb. .52 - .60
Aminopyrine, bots., dms.....lb. 4.00 - 4.40
Ammonia acetate, reagent, crystals, bbls..lb. .34 - —
purified, bbls.....lb. .33 - —
Anhydrous, fertilizer, tankcars, works, frt. equald..ton.58.00 - —
pure, cyls.....lb. .14½- —
refrigeration, tanks, works... ton.61.50 - —
Aqua, 26°, cbys.....lb. .06¼- —
dms., c.l.....lb. .02¾- —
l.c.l. .....lb. .03½- —
tanks, works ($NH_3$ content). ton.65.00 - —
Benzoate, USP, dms., kgs., 4,000 lbs., up, f.t. alld..lb. .43 - —
smaller lots, frt. alld..lb. .44 - .47
Biborate, gran., bbls., N. Y. or Chi..lb. .1515- —
Bicarbonate, dms., c.l.....lb. .0564- —
Bichromate, bbls.... .....lb. .23 - .25
Bifluoride, bbls., c.l., works, frt. alld..lb. .14½- —
l.c.l., same basis.....lb. .15 - .15½
Borate, gran., bbls., kgs.....lb. .1060- —
powd., bbls., kgs.....lb. .1150- —
Bromide, gran. NF, bbls....lb. .28 - —
dms. .....lb. .29 - —
Powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, dms..lb. 06¼- .07¼
cns. .....lb. .14¾- .17½
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, gran., bbls., dms., kgs.. lb. .13 - .15
Citrate, dibasic, bbls.....lb. .75 - —
dms. .....lb. .80 - .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia, aqua).
Hypophosphite, NF, dms....lb. 1.25 - 1.27
jars .....lb. 1.30 - 1.35
Iodide, NF, bots.....lb. 3.71 - —
jars .....lb. 3.85 - —
Linoleate, 50%, anhyd., bbls.lb. .13 - —
Molybdate,[2] e.p., cryst., kgs.lb. 1.20 - 1.25
fine cryst., bbls., kgs.....lb. .94 - .97
purified, dms.....lb. 1.10 - 1.12
Nitrate,[1] fertilizer grade, Canadian, 33.5% nitrogen, bgs., same N unit price, delivered, as Ammonia sulphate, bgs., c.l., shipping point....ton.40.00 - —
bulk, same basis.....ton.40.00 - —
tech., bgs., works.....100 lbs. 4.25 - 4.60
bbls., works.....100 lbs. 4.50 - —
Nitrate - limestone, 20.5% N, bgs., Hopewell, Va..ton.22.00 - —
Oleate, dms.....lb. .14 - —
Oxalate, fine gran. bbls.....lb. .22 - —
dms. .....lb. .26 - .29
Perchlorate, kgs.....lb. No stocks
Persulphate, kgs.....lb. .35½- .36½
Phosphate, dibasic, NF V, bbls., kgs..lb. .27 - .30
tech., bgs., c.l., works..lb. .07 - —
l.c.l., works.....lb. .07¾- —
monobasic, pure, bbls.....lb. .39 - .41
tech., bgs., c.l., works....lb. .07 - —
l.c.l., works.....lb. .07¾- .08¼
Salicylate, NF, dms., kgs....lb. 1.15 - 1.16
Silicofluoride, bbls.....lb. .15 - .18
Stearate, anhydrous, dms....lb. .34 - —
paste, dms.....lb. .06½- —
Sulphocyanate, bbls., works....lb. .18 - .21
Sulphate,[1] bulk, inland producing zone..ton.28.20 - —
Atlantic coast ports....ton.29.20 - —
Sulphide, liquid, 40-45% basis 100%, dms., c.l., works..lb. .09 - —
l.c.l., divd.....lb. .15 - —
tanks, divd.....lb. .07½- —
red, 43% cbys., works.... lb. .06 - —
dms., works.....lb. .04 - —
yellow, 33%, cbys., works..lb. .06 - —
dms., works.....lb. .08 - —
Sulphocyanide, CP, bbls.....lb. .55 - —
jars .....lb. .57 - —
tech., bbls.....lb. .17 - .19
Thiocyanate (see Ammonia sulphocyanide).
Thioglycollate, highly purified, 60% basis, bbls..lb. 7.10 - 8.35
Ammoniac gum (see Gum, ammoniac)
Sal, gray, bbls., c.l., works.... 100 lbs. 5.50 - 5.75
l.c.l., works.....100 lbs. 6.00 - 6.70
white, gran., bbls., c.l., works, 100 lbs. 4.45 - —
l.c.l., same basis.100 lbs. 5.15 - —
Amyl acetate, ax fusel oil, tech., dms., c.l., divd..lb. .17 - —
l.c.l., divd.....lb. .17½- —
tanks, divd.....lb. .16 - —
ex-pentane, dms., c.l., frt. alld. E. of Miss. R..lb. .15½- —
l.c.l., same basis.....lb. .16½- —
tanks, same basis.....lb. .14½- —
Alcohol (see Alcohol, amyl).
Butyrate, dms.....lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
tanks, works.....lb. .06 - —
Ether, dms., c.l., works.....lb. .095 - —
l.c.l., works.....lb. .102 - —
tanks, works.....lb. .085 - —
Nitrite, USP, bots.....lb. 1.73 - 1.80
Mercaptan, dms., works.....lb. 1.10 - —
Salicylate, bots.....lb. .92 - .95
Stearate, dms., works.....lb. .43 - —
Anethol, com'l, dms., works..lb. .657 - .683
NF, dms.....lb. 2.20 - 2.50
Angelica dom. atropurpurea, root, bls..lb. 1.30 - 1.40
imported, natural, bls.....lb. 2.50 - 2.60
Angostura bark, bls.....lb. .21 - .23
Anilin oil, dms., c.l., works, frt. alld..lb. .11½- —
l.c.l., works, frt. alld.....lb. .12½- —
tanks, works, frt. alld.....lb. 10¼- —
Salt, dms., works.....lb. .22 - .24
Anise, Bulgarian, bgs.....lb. No stocks
Chinese, star.....lb. .22 - .33
Cyprus, bgs.....lb. No stocks
Mexican, bgs., futures.....lb. .34½- .35
Syrian, bgs.....lb. No stocks
Turkish, bgs.....lb. No stocks
Anisic aldehyde, dms.....lb. 2.75 - —
cns., bots.....lb. 2.90 - 3.25
Annatto, paste, bxs.....lb. .34 - .39
Seed, bgs.....lb. .13½ - .18¾
Anthracene, 80-85%, bbls., works, lb. .55 - —
90%, bbls., works.....lb. .65 - —
Anthraquinone, 99.5%, bbls....lb. .70 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys.....lb. .17 - —
Metal,[1,6] bulk, c.l., works...lb. .14½- .17½
Needle,[1,6] Bolivian, brown, 67%, cs..lb. .16¼ Nom.
Chinese, black, 70% cs....lb. .20 - .22
Oxide,[1,6] ceramic grade, bgs., c.l...lb. .16 - —
l.c.l. .....lb. .17 - —
paint grade, bgs., c.l.....lb. 16¾- —
l.c.l. .....lb. 16¾- —
Salt,[1,6] 65%, bgs., c.l., divd. E. of Miss. River..lb. No stocks
Sulphide,[1,6] 65-70%, bbls., c.l., works..lb. .17 - —
l.c.l., works.....lb. 17½- —
Antipyrine, bbls., kgs., ton....lb. 2.00 - —
smaller lots.....lb. 2.10 - 2.20
Apomorphine, bots.....os. 23.20 -23.70
Apple syrup,[1] bbls.....lb. .14 - .16
Archil extract, bbls.....lb. No stocks
Areca nuts, powd., bbls.....lb. .17 - .18
Arecoline hydrobromide, bots..os. 6.10 - 7.10
Argols,[7] min. 70%, bgs., shipment port, 100 kilos (100% purity)..46.00 - —
Arnica flowers, bbls.....lb. 3.00 - 3.20
Arsenic, chloride (arsenous), bots. lb. 1.85 - —
Metal, lump, c.l.....lb. No prices
Sulphide, yellow, bbls.....lb. No stocks
Trioxide (see Acid, arsenous, and Arsenic, white).
White, powd., kgs., c.l.....lb. .04 - —
l.c.l. .....lb. .04¾- —
Arrowroot, powd., bgs., bbls...lb. .10½- —
Asafetida, cs. .....lb. .65 Nom.
powd., bbls., dms.....lb. .85 Nom.
Asbestine (see Talc, N. Y., fibrous).
Asbestos, fiber[1] 5D and 5K bgs., c.l. (20 tons), Cana. mines. ton.49.50 - —
5R, bgs., c.l. (20 tons), same basis..ton.44.00 - —
6D, bgs., c.l. (20 tons), same basis..ton.32.00 - —
7D, bgs., c.l., same basis.ton.28.50 - —
7F, bgs., c.l., same basis.ton.26.50 - —
7H, bgs., c.l., same basis.ton.23.50 - —
7K, bgs., c.l., same basis.ton.19.00 - —
7M, bgs., c.l., same basis.ton.16.50 - —
7R, bgs., c.l., same basis.ton.15.50 - —
Asphaltum, Barbados, Dunellen, N. J..lb. .10¼- —
California, dms., c.l.....ton.36.40 - —
l.c.l. .....ton.41.40 - —
Cuba, A, bulk, c.l.....ton.60.00 - —
l.c.l. .....ton.90.00 - —
B, bulk, c.l.....ton.38.50 - —
l.c.l. .....ton.55.00 - —
Egyptian .....ton. No stocks
Gilsonite,[1] brilliant black, selects, 340° F. fusing point, bgs., mines..ton.30.00 -32.00
270-296° fusing point, bgs., mines..ton.20.50 - —
seconds, 300°-390° F. fusing point, not uniform, bgs., mines..ton.25.50 - —
jet, bgs., ton lots, gross weight, Colo. mines..ton.30.50 - —
Manjak, No. 10, crude, dms., works..lb. .05½- .12
process form, bgs., works..lb. .05¾- .12
jet, bgs., 2,000 lbs., gross weight, Colo. mines..ton.30.50 - —
Mexican, refd., dms., f.o.b. Tampico, Mex. metric ton.27.50 - —
South American, refd., dms., c.l., N. J. refy..ton.22.00 -23.00
l.c.l., same basis.....ton.24.00 -25.00
tanks, same basis.....ton.15.00 - —
Atropine, bots.....os. 9.85 - —
Sulphate, bots.....os. 7.35 - —

# B

Balm of Gilead buds, bgs.....lb. 1.90 - 2.00
Barbasco root,[1] (see Cube root).
Barberry root bark, bgs.....lb. .73 - .80
Barbital, dms.....lb. 3.50 - 3.60
Sodium, dms.....lb. 3.75 - 3.85
Barium carbonate, natural, 90% through 200 mesh, bgs., c.l., works..ton.43.00 - —
precip., bgs., c.l., works..ton.60.00 -70.00
l.c.l., works.....ton.65.00 -75.00
bbls., c.l., works.....ton.65.00 -75.00
l.c.l., works.....ton.70.00 -80.00
Chlorate, kgs., works.....ton. .27½- .31
Chloride, CP, cryst., bbls....lb. .25 - .27
pure, bbls., kgs.....lb. .10 - .12
tech., cryst., bgs., c.l., works. ton.72.00 - —
l.c.l., works.....ton.78.00 - —
bbls., c.l., works.....ton.75.00 - —
l.c.l., works.....ton.80.00 - —
Dioxide, dms., c.l., works....lb. .19 - —
l.c.l., works.....lb. .12 - .13
Fluoride, bbls.....lb. .18 Nom.
Hydrate, crystals, bbls.....lb. .06¾- .07½
Hydroxide, bbls., works....lb. .15 - .18
Iodide, bots.....lb. 4.62 - 4.82
Monoxide (see Oxide).
Nitrate, bbls., c.l., works...lb. 09½- .11¼
l.c.l., works.....lb. .10 - .11¼
Oxide, dms., c.l., works.....lb. .11½- .13
l.c.l., works.....lb. .14 - .15
grd., dms., l.c.l., works....lb. .15 - .17
Peroxide (see Dioxide).
Silicofluoride, bbls.....lb. .17 - .19
Stearate, cns., 1 ton up.....lb. .31 - —
smaller lots.....lb. .32 - —
Sulphate, tech. (see Barytes, and Blanc fixe).
X-ray, bbls.....lb. .09½- .10
kgs. .....lb. .12 - —
Barytes,[1] floated, bbls., c.l., St. Louis..ton.27.65 - —
l.c.l., same basis.....ton.28.65 - —
ex whse., N. Y.....ton.36.00 - —
paper bags, c.l., St. Louis.ton.25.35 - —
l.c.l., same basis.....ton.26.35 - —
ex whse., N. Y.....ton.34.00 - —
Southern, off-color, bgs., mines, ton.17.50 - —
93.75%, bgs., mines.....ton.18.00 - —
Ore, approx. 84% $BaSO_4$, bulk, mines..ton. 6.50 - —
Bauxite bulk, mines.....ton. 7.00 -10.00
Bay leaves (see Laurel leaves).
Barberry bark, bgs.....lb. .12 - .18
Belladonna leaves, bls.....lb. 1.25 - 1.30
Root, bls.....lb. 1.35 - 1.40
Bentonite, 200 mesh, bgs., works, ton.11.00 - —
325 mesh, bgs., works....ton.16.00 - —
Benzaldehyde, NF, dms.....lb. .70 - 1.10
tech., cbys., dms.....lb. .45 - .55
Benzene (see Benzol).
Benzidin base, bbls.....lb. .70 - —
Benzocaine, cns.....lb. 3.20 - 3.55
Benzol (benzene), pure, nitration and 90%, dms., works. gal. .20 - —
tanks, E. of Omaha, frt. alld..gal. .15 - —
W. Coast, Minnequa, Colo..gal. .15 - —
Benzophenone, dms.....lb. 1.15 - 1.20
Benzoyl chloride, cbys.....lb. .20½- .30
Peroxide, pure, gran., fib ctns, works..lb. 1.95 - —
Benzyl acetate, f.f.c., cns....lb. .60 - .75
dms. .....lb. .49½- .55
Alcohol (see Alcohol, benzyl)
Benzoate, f.f.c., dms.....lb. 1.05 - 1.15
Chloride, tech., cbys., works, frt. equald..lb. .20 - —
refined, cbys. .....lb. .21 - —
Cinnamate, cns.....lb. 4.00 - 6.25
Formate, cns.....lb. 2.70 - 2.95
Propionate, bots.....lb. 1.65 - 2.05
Salicylate, bots.....lb. 1.80 - 1.85
Benzylidinacetone, bots.....lb. 2.35 - 2.70
Benzylisoeugenol, bots.....lb. 9.50 - —
Berberine bisulphate, cns.....lb. No stocks
Hydrochloride, bots.....lb. No stocks
Sulphate, cns.....lb. No stocks
Berberis root, bls.....lb. .30 - .35
Betanaphthol, resublimed, dms., works..lb. .55 - .60
tech., bbls., c.l., works....lb. .21 - —
l.c.l., works.....lb. .23 - —
Benzoate, fib. dms., works..lb. 1.75 - —
Salicylate, dms.....lb. 2.00 - —
Betanaphthylamine, tech., works, lb. .51 - —
Betapicoline, 90%, ref. dms., c.l., works..lb. 1.90 - —
l.c.l., works.....lb. 1.95 - —
95%, dms., works.....lb. 2.05 - —
98-99%, works.....lb. 2.20 - —
Betagammapicoline, dms., c.l., works..lb. .33½- —
Beth root, bls.....lb. .42 - .44
l.c.l., works.....lb. .21½- —
Bismuth chloride, bots.....lb. 2.00 - —
jars .....lb. 2.05 - —
Citrate, USP VIII, bots.....lb. 2.81 - 3.00
jars .....lb. 2.75 - —
Hydroxide, bots.....lb. 2.41 - 2.46
cns. .....lb. 2.50 - —
Metal, ton lots.....lb. 1.25 - —
Nitrate, cryst., bots.....lb. 1.41 - 1.46
cns. .....lb. 1.50 - —
Oxychloride, bots.....lb. 2.14 - 2.19
cns., dms., kgs.....lb. 2.19 - —
Subbenzoate, bots.....lb. 2.81 - —
fib. dms.....lb. 2.40 - —
Subcarbonate, USP, bbls., dms., bots., cns.....lb. 1.50 - 1.55
X-ray, 5-lb. bots.....lb. 1.59 - 1.65
fib. dms.....lb. 2.75 - —
Subgallate, NF, bots., cns...lb. 1.40 - 1.55
fib. dms.....lb. 1.40 - 1.45
Subiodide, bots.....lb. 4.10 - 4.25
fib. dms.....lb. 4.15 - —
Subnitrate, USP, powd., bbls., dms..lb. 1.20 - 1.25
bots. .....lb. 1.29 - 1.35
Subsalicylate, USP, bbls., fib. dms..lb. 2.50 - —
5-lb cans.....lb. 2.54 - 2.60
Sulphocarbolate, bots.....lb. 2.71 - 2.74
fib. dms.....lb. 2.65 - —
Bismuth-ammonia citrate, USP, powd., dms...lb. 2.40 - —
cns. .....lb. 2.45 - 2.50
Black, acetylene, bgs., c.l., works..lb. .14 - —
l.c.l., works.....lb. .15 - —
Bone 1A, bgs., bbls., c.l., frt. alld. E..lb. .17 - —
2, bgs, bbls., c.l., same basis. lb. .19 - —
3, bgs, bbls., c.l., same basis. lb. .11 - —
4, bgs., bbls., c.l., same basis. lb. 06½- —
400A, bgs., bbls., c.l., same basis..lb. 06½- —
Bone, 457, bgs., bbls., c.l., same basis..lb. .11½- —

Bone black l.c.l. prices are ½c. higher than c.l. Pacific coast, ex dock, or whse., prices are 1½c. higher.

Carbon, channel, compressed, beads, bulk, c.l., works. lb. .05 - —
bgs., c.l., works.....lb. .055 - —
l.c.l., works.....lb. .06 - —
divd. or whse.....lb. .092 - —
uncompressed, regular, bgs., c.l., works..lb. .03625- —
bgs., ctns., l.c.l., divd. or whse..lb. .097 - —
Furnace, HMF, bgs., c.l., works..lb. .06 - —
ctns., l.c.l., whse.....lb. .07½- —
SRF, bgs., c.l., works....lb. .06¾- —
ctns., l.c.l., whse.....lb. .08 - —
Thermatomic, bgs., c.l., works, La..lb. .04 - —
l.c.l., whse. Trenton, N. J. lb. 06½- —
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, pure, bbls., l.c.l., works..lb. .06½- —
Lamp, 1, ctns., c.l., works..lb. .06½- —
l.c.l., works.....lb. .09 - —
2, ctns., c.l., works.....lb. .10 - —
l.c.l., works.....lb. .11 - —
2A, ctns., c.l., works.....lb. .12 - —
l.c.l., works.....lb. .13½- —
3, ctns., c.l., works.....lb. .14½- —
l.c.l., works.....lb. .15½- —
4, ctns., c.l., works.....lb. .16½- —
l.c.l., works.....lb. .17½- —
5, ctns., c.l., works.....lb. .20 - —
l.c.l., works.....lb. .22 - —
6, ctns., c.l., works.....lb. .26½- —
l.c.l., works.....lb. .27½- —
7, ctns., c.l., works.....lb. .31½- —
l.c.l., works.....lb. .33½- —
Mineral, vine type, bbls., l.c.l., works..lb. .04¾- —
Vine A, bbls.....lb. .04½- .05
B, bbls.....lb. .03¾- —
kegs .....lb. .06 - —
Black dyes (see Dyes).
Black haw root bark, bls.....lb. .34 - .35
Tree bark, bls.....lb. .40 - .45
Black Indian hemp root, bls..lb. .35 - .39
Blanc fixe, dry, by-product, bgs., c.l., works..ton.60.00 - —
l.c.l., works.....ton.67.00 - —
direct process, bgs., c.l., works..ton.70.00 - —
bbls., c.l., works....ton.75.00 - —
l.c.l., works.....ton.80.00 - —
pulp, 66%, bbls., c.l., works. ton.40.00 - —
l.c.l., same basis....ton.44.00 - —
Bleaching powder,[3] dms., c.l., works..100 lbs. 2.50 - 2.10
l.c.l., works.... 100 lbs. 2.75 - 3.00
Blood,[1,7] dried, 16-16½% ammo., bgs..unit-ton. 5.35 - 7.50
high-grade, unground, 16-17% ammon., bulk, Chicago. unit-ton. 5.35 - 7.50
soluble, bgs., c.l., Chicago...lb. .13 - —
l.c.l., Chicago.....lb. .15 - .20
Bloodroot, bls. .....lb. .30 - .35

OPD—5-27-1946

# Immediate Delivery

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| CITRIC ACID | NAPHTHALENE |
| CREAM OF TARTAR | POTASSIUM CHLORATE |
| EPSOM SALTS | ROCHELLE SALTS |
| HEXYLRESORCINOL | SODIUM CITRATE |
| LANOLIN | SODIUM PERBORATE |
| MAGNESIUM CARBONATE | TARTARIC ACID |
| MYRISTYL ALCOHOL | YELLOW PRUSSIATE OF SODA |

WILLIAM D. NEUBERG COMPANY

*Chemicals*

GRAYBAR BUILDING • 420 LEXINGTON AVE • NEW YORK 17, N. Y.

TELEPHONE LEXINGTON 2-3324

CABLE—"WILNEUBERG"

Blue,[1] alkali, dry, bbls., dlvd. N. of Tenn. and N.C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.75 - —
Toner, bbls., same basis....lb. .85 - .90
Celestial, bbls., same basis...lb. .10 - .12
Chinese, bbls., same basis..lb. .36 - —
Cobalt, genuine, bbls., same basis..lb. 4.00 - —
Imitation (see Blue, ultramarine).
Copper phthalocyanin, full strength, bbls., same basis. lb. 3.50 - 3.75
50%, bbls., same basis...lb. 3.00 - —
green shade, bbls., same basis. lb. 4.50 - 4.60
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Milori, bbls., same basis....lb. .36 - —
Molybdated, Victoria, bbls., same basis..lb. 3.15 - —
Peacock, fugitive, 100% color strength, same basis..lb. .52 - —
Permanent toner, green shade, molybdic, bbls., same basis lb. 3.50 - —
tungstic .....lb. 4.00 - —
Potash, CP, bbls., same basis. lb. .42 - —
Prussian, bbls., same basis.lb. .36 - —
soluble, bbls., same basis..lb. .36 - —
Soda, CP, bronze, bbls., same basis..lb. .36 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis. lb. .23 - .27
jobbing type, dry, bbls., same basis..lb. .12 - .13
regular types, dry or pulp, bbls., same basis..lb. .17 - .27
Blue, Victoria, toner, molybdic, bbls..lb. 3.15 - —
tungstic, bbls.....lb. 3.30 - —
ink toner, bbls., same basis, lb. 1.83 - —
synthetic vehicle, bbls., same basis..lb. 1.93 - —
Violet, toner, molybdic, bbls., same basis..lb. 1.24 - —
tungstic, kgs., same basis..lb. 2.10 - —
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.); Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher, Pac. Coast; Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Blue dyes are listed under Dyes.
Blue mass, NF, cns., tube....lb. 1.58 - 1.76
powd., bots., cns., dms.....lb. 1.61 - 1.75
Blueflag root, bls.....lb. .60 - .65
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Bone,[7] raw, bulk, Chicago...ton.57.00 -65.00
junk, bulk, same basis....ton.35.00 - —
Meal, raw, 4½% ammon., 50% phos., bgs., E. works.. ton.37.50 - —
Chicago, works.....ton.39.50 - —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works..ton.48.50 - —
Chicago, works.....ton.50.00 - -
fertilizer grade, 3% ammon., 50% phos., bgs., E. works ton.38.50 - —
Chicago, works.....ton.36.00 - —
Phosphate, defluorinated (see D).
Precipitated (see Calcium phosphate tribasic precip.).
Boneset leaves, bls.....lb. .16 - .17
Borage flowers, bls.....lb. .60 - .62
Borax, tech., 99½% gran., bulk, c.l., frt. alld..ton.41.50 - —
bgs., c.l., frt. alld....ton.45.00 - —
ton lots, ex whse.....ton.56.00 - —
less ton lots, ex whse.ton.61.00 - —
bbls., c.l., frt. alld.....ton.55.00 - —
ton lots, ex whse....ton.66.00 - —
less ton lots, ex whse.ton.71.00 - —
powd., bgs., c.l., frt. alld.. ton.60.00 - —
ton lots, ex whse.....ton.61.00 - —
less ton lots, ex whse.ton.66.00 - —
bbls., c.l., frt. alld.....ton.60.00 - —
ton lots, ex whse.....ton.71.00 - —
less ton lots, ex whse.ton.76.00 - —
USP, $15 per ton higher.
Bordeaux mixt., dms., c.l., whse., works, frt. alld..lb. .11 - —
l.c.l., same basis.....lb. .11½- —
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., frt. alld. E. of Rockies..lb. .23 - —
single pkgs., same basis..lb. .28 - —
Brasilwood extract (see Hypernic).
Bromoform, USP, bots.....lb. 1.50 - —
cbys. .....lb. 1.42 - —
Bromstyrol .....lb. 5.20 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., cns., dms., works. lb. .60 - .65
moulding, cns., dms., same basis..lb. .80 - 1.00
printing ink, cns., dms., same basis..lb. .85 - 1.20
radiator, cns., dms., same basis..lb. .45 - .50
Broomtop, bls. .....lb. .21 - .24
Brown, iron-oxide, pure, precip., cks., works..lb. .12 - —
Metallic, bbls., c.l., works..lb. .02½- —
Sap, crystals, works.....lb. .12 - —
powdered .....lb. .13 - —
Sienna, burnt, American, bbls., works..lb. .06½- .08
pap. bgs., c.l., same basis. lb. .0235- —
Italian type, bbls., works. lb. .08¾- .10¾
raw, American, bbls., works. lb. .04 - .10
Italian type, bbls., works. lb. .08 - .10
Umber, burnt, American, bbls., works..lb. .08¼- —
Italian-type, bbls., works.lb. .04¾- —
Turkey-type, bbls., c.l., Boston, Bethlehem, Easton, Pa.; N. Y..lb. .04¾- —
St. Louis, Chicago, Indianapolis, New Orleans..lb. .05¼- —
Minneapolis .....lb. .0535- —
Pittsburgh .....lb. .05 - —
ex car, Los Angeles.. lb. .05¾- —
Portland, San Francisco, Seattle..lb. .05½- —
ex whse, Los Angeles. lb. .05¾- —
Portland, San Francisco, Seattle..lb. .05¾- —
Vandyke, reg., bbls., works..lb. .09 - —
special, bbls., works.....lb. .12 - —
Brucine, cns., 100 ozs.....oz. .35 - —
Sulphate, cns., 100 ozs.....oz. .30 - —
Bryonia root, bls.....lb. .58 - .60
Buchu leaves, bls.....lb. .80 - .85
Buckthorn bark, bls.....lb. .45 - .46
Berries, bgs.....lb. .69 - .76
Burdock root, bls.....lb. .35 - .37
Burgundy pitch, dom., dms...lb. .08 - —
Butane,[1] indust., tanks, (group 3. gal. .03½- —
Butyl acetate, normal,[1] ferment, Ill., Ind., prod., dms., c.l., frt. alld. E. of Miss. R. lb. .2106- —
l.c.l., same basis.....lb. .2155- —
tanks same basis.....lb. .2005- —
tankwagon, same basis.lb. .2055- —
other production, dms., c.l., same basis..lb. .1900- —
l.c.l., same basis....lb. .1950- —
tanks, same basis.....lb. .1800- —
synthetic, dms., c.l., same basis..lb. .11¼- —
l.c.l., same basis.....lb. .12¼- —
tanks, same basis.....lb. .10¾- —
secondary,[1] dms., c.l., dlvd. E. of Miss. R..lb. .09½- —
l.c.l., same basis.....lb. .10 - —
tanks, same basis.....lb. .08½- —
Normal butyl acetate, W. of Miss. R., ¼c. per lb. higher.
Aldehyde, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Ether (see Ether, butyl).
Lactate, dms., works.....lb. .26¼- —
Laurate, dms., works.....lb. .42 - —
Myristate, dms., works.....lb. .41 - —
Oleate, ref., dms., l.c.l., works. lb. .85 - —
tech., dms., c.l., works.....lb. .24 - —
l.c.l., works.....lb. .24½- .25½
Phenylacetate, dms.....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd.....lb. .16½- .17
tanks, dlvd.....lb. .15½- —
Stearate, dms.....lb. .31½- —
Butyric ether, bots.....gal. 6.50 - 6.95
cns., works.....lb. .65 - .70
dms., works.....lb. .80 - —

## C

Cadmium bromide, bots.....lb. 1.84 - 1.91
jars .....lb. 1.65 - 1.70
Iodide, bots.....lb. 4.23 - —
cns. .....lb. 4.09 - —
Lithopone (see Yellow).
Metal,[1,5] ingots or sticks, dlvd. lb. .90 - —
pat. shapes, cs., dlvd.....lb. .95 - —
Selenide (see Red).
Sulphide (see Yellow).
Caffeine,[1] dms., 100 lbs. or more, lb. 2.80 - 2.85
smaller lots.....lb. 2.95 - 3.25
anhydrous, dms., 100 lbs. or more..lb. 3.00 - 3.08
smaller lots.....lb. 3.15 - 3.45
Citrated, dms., 100 lbs. or more, lb. 1.95 - —
smaller lots.....lb. 2.05 - 2.80
Hydrobromide, bots.....lb. 5.29 - 5.37
Calabar beans, bgs., futures. lb. .65 - .66
Calamus root, natural, dom., bls. lb. .50 - .55
Calciferol, in corn oil, dms., 10,000 units or more, works, unit. .10 - —
1,000 to 10,000 units, works, unit. .11 - —
less than 1,000 units, works, unit. .12 - —
Calcium acetate, bgs., dlvd.... 100 lbs. 3.00 - 4.00
Arsenate, bgs., c.l., whse., wks., frt. alld..lb. .07½- .08
l.c.l., same basis.....lb. .08 - .08½
Bromide, N.F., jars.....lb. .65 - .70
Carbide,[1] dms., c.l., works.ton.50.00 - —
dlvd. .....ton.87.00 -90.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars..lb. .28 - .30
flake, 77-80%, paper bgs., c.l., dlvd..ton.18.50 -35.00
l.c.l., dlvd.....ton.28.50 -45.00
liquor, basis 40%, tanks, works..ton. 7.50 - —
solid, 73-75%, dms., c.l., dlvd. ton.18.00 -34.50
l.c.l., dlvd.....ton.28.00 -44.50
Calcium chloride prices vary according to zone; minimum prices are for spot delivery. C.l. prices for flake in burlap paper-lined bags, $2.50 per ton over paper bags; drums, $3.50 per ton over paper bags.
Cyanide, dms., delivered E. of Rockies..lb. .20 - .40
Gluconate, USP, gran., bbls., lb. .52 - —
dms. .....lb. .57 - .59
cns. .....lb. .70 - —
powd., 2c. per lb. lower.
Glutamate, kgs.....lb. 1.50 - —
Glycerophosphate, fiber dms., 1,000-lb. lots..lb. 1.25 - —
smaller lots.....lb. 1.40 - 1.60
Hypochlorite, dms., dlvd. E. of Rockies..lb. .22 - .26½
cans, in cases, same basis..lb. .3778- .4223
Iodide, bots., jars.....lb. 4.04 - 4.19
Lactate, edible, dms.....lb. .21 - —
USP, bbls.....lb. .35 - .37
Laurate, bbls.....lb. .28 - .29
Mandelate, USP, dense, fluffy, works, dms..lb. 2.05 - 2.30


# Arrange with CALCO for your supply of

## CINCHOPHEN N.F. NEOCINCHOPHEN U.S.P.

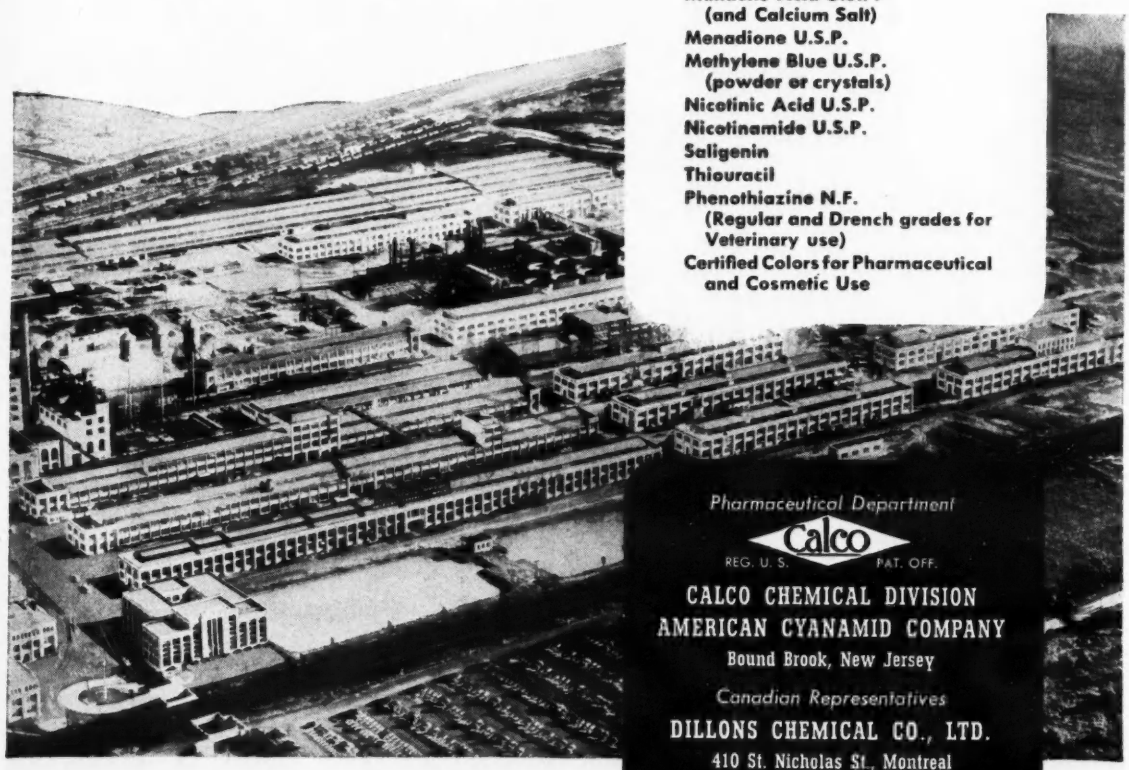
CALCO appreciates the patience pharmaceutical manufacturers have shown with respect to inadequate supplies of the above drugs. The scarcity of these drugs has been due in large measure to the war emergency. This caused one essential raw material to be unavailable for several months.

Now, however, raw materials are again available and CALCO has enlarged its plant for these drugs to provide for a sufficient volume to take care of world demands. On both Cinchopen N.F. and Neocinchopen U.S.P., CALCO will shortly be able to make prompt deliveries and suggests you make arrangements as soon as possible for your requirements for the balance of the year.

★ ★ ★

**CALCO'S Bulk Pharmaceuticals**

**SULFADIAZINE U.S.P.**
**(powder or micro crystal)**
**. . . the Sulfa drug of choice**
**Sodium Sulfadiazine U.S.P.**
**Sulfamerazine**
**Sodium Sulfamerazine**
**Sulfanilamide U.S.P.**
**(powder, crystal and micro crystal)**
**Sulfathiazole U.S.P.**
**(powder, crystal and micro crystal)**
**Sodium Sulfathiazole U.S.P.**
**Sulfapyridine U.S.P.**
**Sodium Sulfapyridine**
**Aminoacetic Acid U.S.P.**
**Calcium Pantothenate (Dextro)**
**Choline Chloride**
**Choline Dihydrogen Citrate**
**Cinchophen N.F.**
**(and Sodium Salt)**
**Neocinchophen U.S.P.**
**Mandelic Acid U.S.P.**
**(and Calcium Salt)**
**Menadione U.S.P.**
**Methylene Blue U.S.P.**
**(powder or crystals)**
**Nicotinic Acid U.S.P.**
**Nicotinamide U.S.P.**
**Saligenin**
**Thiouracil**
**Phenothiazine N.F.**
**(Regular and Drench grades for Veterinary use)**
**Certified Colors for Pharmaceutical and Cosmetic Use**



*Pharmaceutical Department*
Calco
REG. U. S. PAT. OFF.
CALCO CHEMICAL DIVISION
AMERICAN CYANAMID COMPANY
Bound Brook, New Jersey
*Canadian Representatives*
DILLONS CHEMICAL CO., LTD.
410 St. Nicholas St., Montreal
137 Wellington St. W., Toronto

Calcium naphthenate, 4% Ca, 50-gal. dms..lb. .22½- —
Pantothenate, doz., 100-gram bots, works..per gram. .10 - —
Phosphate, feeding, grade, bgs., works..ton.75.00 - —
food grade, bbls., 10 or over, works..lb. .07 - .07¾
less than 10, works.....lb. .08 - .10
medicinal, dibasic, bgs..... 100 lbs.11.40 -18.00
monobasic, cryst., bgs., c.l., works, frt. equald..lb. .05¾- —
l.c.l., frt. equald.....lb. .06 - .06½
tribasic, bbls., c.l., works..lb. .0635- —
bgs., l.c.l., works.....lb. .0645- .0680
Resinate, precip., 5.3% Ca, 100-lb. dms..lb. .15½- —
Silicate, hydrated, c.l., bgs., works..lb. .05½- —
l.c.l., works.....lb. .06 - —
Stearate, precip., ctns., c.l., works..lb. .25 - —
l.c.l., works.....lb. .26 - .28
Sulphate (see Gypsum).
Sulphide, 70%, bgs., c.l., works. ton.45.00 - —
80%, bgs., c.l., works....ton.50.00 - —
luminous, tins, works.....lb. 1.25 - —
Sulphocarbolate, bbls.....lb. .49 - .50
Tallate, 3%-4% Ca, 50-gal. dms. lb. .13¼- .19½
Calcium-strontium sulphide, phosphorescent, dms., works..lb. 1.00 - 1.50
fine particle size, works.. lb. 1.50 - 1.75
Calendula flowers, bls.....lb. 2.60 - 2.65
Calomel, bbls., dms.....lb. 2.44 - 2.45
Camphor, natural.....lb. No stocks
synth., tech., bbls., contract, 2,000 lbs. or more, works.lb. .42 - —
10 bbls. (1,500 lbs.).....lb. .44½- —
5 to 9 bbls.....lb. .45 - —
1 to 4 bbls.....lb. .46 - —
smaller lots.....lb. .48 - .55
USP, gran., powd., bbls., 2,000-lb. lots..lb. .69 - —
1,000-lb. lots.....lb. .70 - —
smaller lots.....lb. .71 - —
tablets, 2,000-lb. lots.....lb. .82 - —
1,000-lb. lots.....lb. .83 - —
smaller lots.....lb. .84 - —
Camphor, monobromated, dms.lb. 3.20 - —
Canada balsam (see Fir balsam).
Cantharides, Russian, bgs.....lb. 9.00 - —
Capsicum (see Pepper, red).
Capsium oleoresin, USP VII, cns..lb. 4.50 - 4.65
Caramel coloring, bbls.....gal. .70 - 1.10
Caraway seed, California, Dutch type..lb. .29 - .30
Canadian, bgs.....lb. .29 - .30
Danish, bgs.....lb. .28 - .29
Dutch, bgs.....lb. .26½- .27
futures, bgs.....lb. .26½- .27
Morocco, dewhiskered, futures, bgs..lb. .37 - .38
natural, bgs., futures.....lb. .33 - .34
Spanish, dewhiskered, bgs...lb. No stocks
Syrian, dewhiskered, bgs....lb. No stocks
Carbazole, 95%, dms., ton lots, works..lb. .70 - —
smaller lots, works.....lb. .80 - —
98%, dms., ton lots, works..lb. .75 - —
smaller lots, works.....lb. .85 - —
Carbinol, butyl, norm. dms., l.c.l., works..lb. .27 - —
secondary, dms., l.c.l., works. lb. .60 - —
Isobutyl, dms., c.l., works..lb. .22½- —
l.c.l., works.....lb. .23½- —
tanks, works.....lb. .21½- —
Methylisobutyl, dms., c.l., nearest delivery point buyer's works..lb. .11¾- —
l.c.l., same basis.....lb. .12¼- —
tanks, same basis.....lb. .10¾- —
Carbon bisulphide, 55-gal. dms., c.l., frt. all. E. of Miss R., N. of Ohio R..lb. .05 - —
l.c.l., same basis.....lb. .05¾- —
5-gal. dms., c.l., same basis. lb. .07 - .07½
l.c.l., same basis.....lb. .08 - .08½
Dioxide, cyls.....lb. .06 - .08
Tetrachloride,[1] c.p., dms., c.l. gal. .96 - —
l.c.l. .....gal. 1.01 - —
tech., Zone 1, 52½-gal. dms., c.l., frt. alld..gal. .69 - —
l.c.l., frt. alld.....gal. .76 - —
5 or 10-gal. dms., c.l., frt. alld..gal. .93 - —
l.c.l., frt. alld.....gal. 1.03 - —
Zone 2, 52½-gal. dms., c.l., frt. alld..gal. .76 - —
l.c.l., frt. alld.....gal. .83 - —
5 or 10-gal. dms., c.l., frt. alld..gal. 1.00 - —
l.c.l., frt. alld.....gal. 1.10 - —
Zone 3, 52½-gal. dms., c.l., frt. alld..gal. .90 - —
l.c.l., frt. alld.....gal. .96 - —
5 or 10-gal. dms., c.l., frt. alld..gal. 1.13 - —
l.c.l., frt. alld.....gal. 1.23 - —
Zone 4, 52½-gal. dms., c.l., gal. .83 - —
5 or 10-gal. dms., c.l..gal. 1.03 - —
l.c.l. .....gal. .90 - —
USP, cbys.....lb. .17 - .19

Carbon tetrachloride prices are frt. alld. with the exception of Zone 4, where prices are f.o.b. cars, L. A. Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O, Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings.

Cardamom, bleached, bold, cs., lb. 1.35 - 1.40
medium, cs.....lb. 1.30 - 1.35
decorticated, Guatemala, cs..lb. 1.00 - 1.10
India, cs.....lb. 1.00 - 1.10
green, Alleppey, bgs.....lb. .87 - .88
Carotene, cryst., 1,350,000 A units per gm., tins, works, 1,000,000 units. .50 - —
research grade (alpha, 10%; beta, 90%), amps, 100 grams, dlvd..gram. 2.85 - —
50 grams, dlvd.....gram. 2.90 - —
in vegetable oil, 250,000 USP units per gm., bots., works. lb.37.80 - —
50,000 USP units per gm., bots., works..lb. 8.43 - —
dms., works.....lb. 7.68 - —
3,800 A units per gm., tins, works, 1,000,000 units. .55 - —
dms., works..1,000,000 units. .50 - —
3,300 USP units per gm., dms., works..lb. .66 - .71
Carvol, bots.....lb.16.00 -20.00
Cascara sagrada bark, bulk...lb. .43 - .45
Case-hardening mixture, 30% gran., dms., l.c.l..lb. .09¾- —
slabs, dms., l.c.l.....lb. .08¾- —

Casein,[1] dom., acid-precip., bgs., 10,000 lbs. or more, ship't point..lb. .33 - —
2,000 lbs. or more, but under 10,000 lbs., same basis..lb. .33¼- —
less than 2,000 lbs., same basis..lb. .33¾- —
rennet-precip., bgs., 10,000 lbs. or more, same basis, lb. .34¼- —
2,000 lbs. or more, but under 10,000 lbs., same basis..lb. .34¾- —
less than 2,000 lbs.....lb. .35¼- —
imp., acid-precip., ground, bgs., 100 bgs. or more..lb. .33 - —
rennet-precip., unground, 100 bgs. or more..lb. .34¼- —
Cassia,[1] China buds, bgs., futures..lb. .56 - .57
rolls, selected, cs., futures. lb. .35 - .36
extra select, broken, bbls., lb. .34½- .35
Saigon, May-June ship't., cs. lb. .65 Nom.
Cassia fistula, bskts.....lb. .26 - .28
Castor bean,[1,7] bgs., c.i.f. first arrival point, U.S..long ton.118.00 - —
Oil (see Oil, castor).
Pomace,[1] bgs., c.l., works..... unit-ton. 3.15 - 4.75
Castoreum, nat., cns.....lb.12.00 -13.00
synthetic, cns.....lb.21.00 - —
Catechol, CP, cryst., works, fib. dms., frt. alld..lb. 1.90 - —
resublimed, works, frt. alld., dms..lb. 3.25 - —
Catnep, bls.....lb. .50 - .55
Celery seed, French, bgs.....lb. 1.00 Nom.
Indian, bgs. .....lb. .26½- .27
Celluloid scrap (see Pyroxylin scrap).

Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .30 - —
granules, ctns., same basis.lb. .35 - —
Acetate-butyrate, flake, high (36.5%) butyryl content, 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .45 - —
1,000-4,900 lbs., frt. alld..lb. .46 - —
100-900 lbs., frt. alld. lb. .47 - —
smaller pkgs., works..lb. .48 - —
medium (15.5 or 17.0%), 50 lb. ctns., 5,000 lbs. and up, frt. alld..lb. .43 - —
1,000-4,900 lbs., frt. alld..lb. .44 - —
100-900 lbs., frt. alld. lb. .45 - —
smaller pkgs., works..lb. .46 - —
Granules are 5c. per lb. higher. all quantities.
Acetate-propionate, flake, high (31.5% propionyl content), 50-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .45 - —
1,000-4,900 lbs., frt. alld.lb. .46 - —
100-900 lbs., frt. alld....lb. .47 - —
smaller pkgs., works..lb. .48 - —
Granules are 5c. per lb. higher all quantities.
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .30 - —
Cerium hydrate, dms., works..lb. .60 - —
Oxalate, USP, bbls., works..lb. .35 - —
kgs., works.....lb. .37 - —
Cerium oxide, optical grade, kgs., 100-lb. lots, works..lb. 1.50 - —
bgs., smaller lots, works..lb. 2.00 - —

Chalk, precipitated, cosmetic, dentifrice, and drug, bgs., c.l., works..lb. .02¾- —
paint and other industries, bgs., c.l., works..ton.40.00 - —
papermakers, bgs., c.l., works. ton.82.50 - —
rubbermakers, bgs., c.l., works ton.30.00 - —
Chamomile, Hungarian type, cs. lb. .65 - .70
Roman, bls., futures.....lb. 1.70 - 1.80
Charcoal, hardwood, lump, bulk, c.l., works..ton.38.00 -39.50
bur. bgs., included, c.l., works..ton.41.50 -46.80
briquets, bulk, c.l., works... ton.44.50 -49.80
bgs., c.l., works.....ton.49.80 -50.50
granular, all grades, bgs., works..ton.46.80 -49.80
screenings, bgs., works....ton.31.20 -33.15
Pinewood,[1] lump, bgs., c.l., Southern shipping points. ton.20.00 - —
granular, powd., bgs., c.l., works, South..ton.30.20 - —
l.c.l., works.....ton.41.00 - —
Willow, powd., bbls.....lb. .06 - .07
Chestnut extract,[1,8] standard, 25% tannin, bbls., c.l., works. 100 lbs. 3.70 - 4.65
l.c.l., works.....100 lbs. 4.07 - 4.90
tanks, works.....100 lbs. 3.22 - 4.00
powdered, 65% tannin, bags extra, c.l., works.100 lbs. 7.46 - 8.32
l.c.l., works..100 lbs. 8.21 - 9.07
Chillies (see Pepper, Red).
China clay,[1] dom., dry-grd., air-float, 99.75%, 300 mesh, bgs., c.l., works..ton. 9.50 - —
l.c.l., works....ton.16.00 - —
bulk, c.l., works.ton. 7.60 - —


Spot Deliveries

HEAVY CALCINED MAGNESIA White
CITRIC ACID
ROCHELLE SALTS
SODA ASH Light
RED LEAD
CAUSTIC POTASH
SODIUM BICHROMATE
MAGNESIUM METAL POWDER High Purity
COPPER SULPHATE
OXALIC ACID
ZINC OXIDE American & French Process
LITHARGE
CHROMIC ACID

OTHER SPECIAL PRODUCTS

Distributors for THE RUFERT CHEMICAL COMPANY

NICKEL FORMATE • Also NICKEL CATALYST • NICKEL CARBONATE
NICKEL OXIDE, etc.

GOLWYNNE
CHEMICALS CORPORATION

420 LEXINGTON AVENUE • NEW YORK 17, N. Y. • PHONE LE 2-9740

China clay, dom., dry-grd., air-float, 99.75%, 200 mesh, bgs., c.l., works..ton. 8.50 - —
l.c.l., works.....ton. 9.50 -15.50
wet-grd., silk-bolt, 99½%, 325 mesh, bulk, c.l., works..ton. 9.50 - —
paper bgs., c.l., works.ton.12.50 - —
imported, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..ton.19.00 -24.00
powd., cks., l.c.l., ex whse. ton.41.00 - —
Chloral hydrate, jars.....lb. .93 - .98
dms.....lb. .90 - .95
Chlorinated rubber,[6] standard, ctns., 100 lbs. up, works.lb. .32 - —
smaller lots, works.....lb. .35 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Chlorine, liquid, cyls., c.l....lb. .05¼- —
contracts.....lb. .05¼- —
l.c.l.....lb. .07¼- —
tanks, single units, works, frt. equald..100 lbs. 1.75 - —
multiple units, 3 or over, works, frt. equald..100 lbs. 2.00 - —
2, wks., frt. equald.100 lbs. 2.50 - —
1, wks., frt. equald.100 lbs. 3.00 - —
Chloroform, tech., dms.....lb. .20 - .23
USP, dms.....lb. .30 - .33
Chloropicrin, com'l, 180 lb. cyl., 100-lb. cyls., same basis..lb. .32 - —
25-lb. cyls., ex whse.....lb. 1.00 - —
1-lb. bots., ex whse.....lb. 1.25 - —
Choline chloride, fib. dms., works. lb. 3.00 - 3.10
Dihydrogen citrate, fib. dms., works..lb. 3.00 - 3.10
Chrome acetate, powd., 22% Cr., bbls., works..lb. .32 - .34
ton lots, works.....lb. .30 - .33
solut., 8%, bbls., cs.....lb. .07½- —
7½%, bbls., cs.....lb. .06½- —
Chrome, fluoride, bbls., wks..lb. .24 - .27
Cake, bulk, c.l., works.....ton.16.00 - —
Oxide (see Green, chrome oxide).
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).

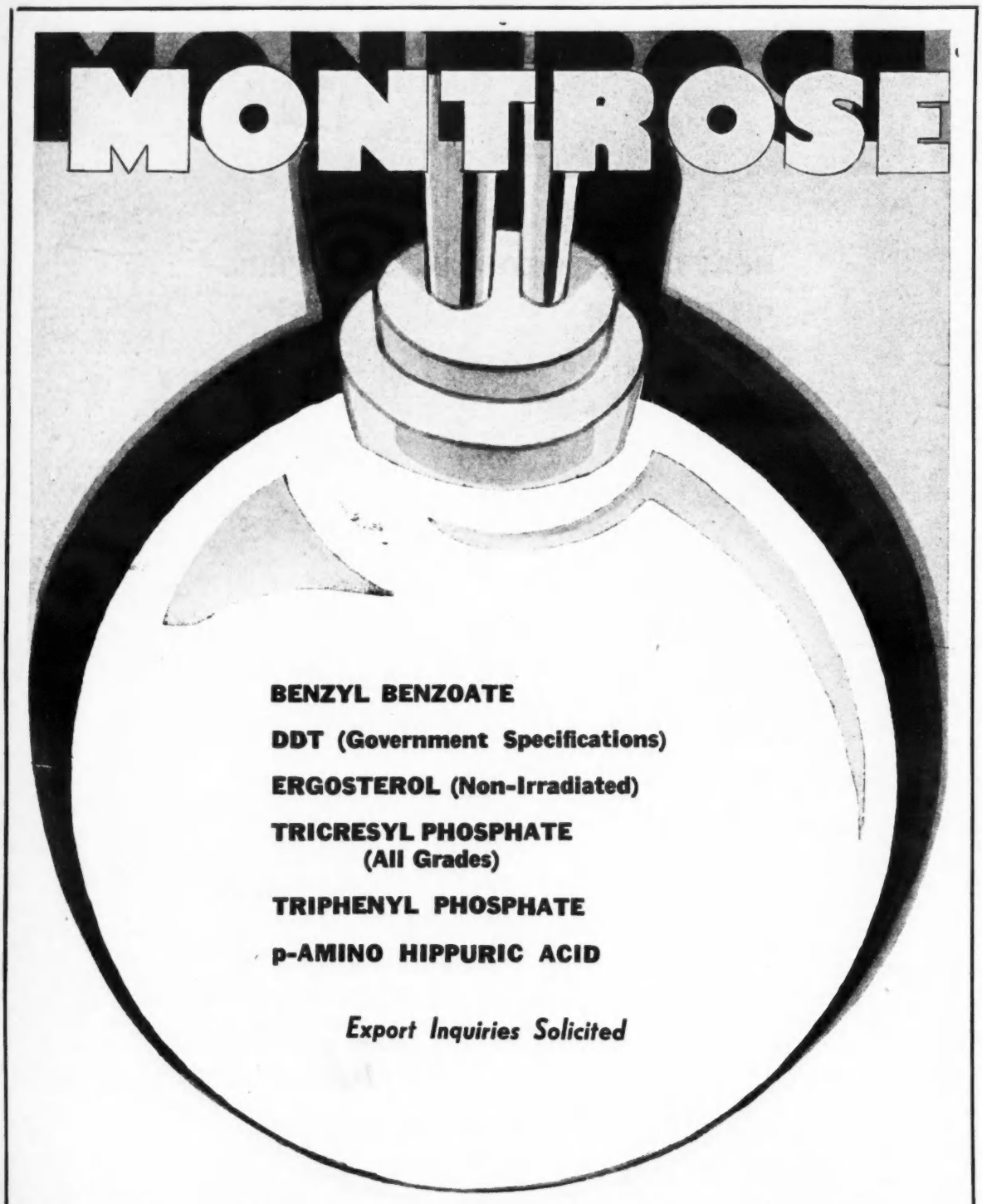
Chrysarobin, bots.....lb. 6.02 - 6.09
Cinchona bark,[6] red, quill, USP, 10 in., can..lb. 1.20 Nom.
Cinchonidine,[6] small, cryst., cns., 100 ozs..oz. No prices
Cinchophen, NF, heavy, dms., works..lb. 3.70 - 3.80
Cinchonine[6] small, cryst., cns., 100 ozs..oz. No prices
large, cryst., cns., 100 ozs..oz. No prices
Sulphate, NF, cns., 100 ozs..oz. No prices
Cinchopen, NF, heavy, dms..lb. 3.70 - 3.80
standard, dms., works.....lb. 3.50 - 3.60
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms...lb. .85 - 1.00
Cinnamon,[1] Ceylon, O, bls., futures..lb. .5700- —
OO, bls. futures.....lb. .5820- —
OOO, bls., futures.....lb. .5900- —
OOOO, bls., futures.....lb. .5990- —
No. 1, bls., futures.....lb. .5625- —
2, bls., futures.....lb. .5635- —
3, bls., futures.....lb. .5335- —
4, bls., futures.....lb. .5335- —
Citral, bots., cns.....lb. 6.50 - 7.50
Citrine, ointment, jars.....lb. .95 - 1.15
Citronellal, bots., dms.....lb. No prices
Citronellol, bots., dms.....lb. No prices
Clove, Madagascar, bls.....lb. .16¾- .17¼
futures, bls.....lb. .16¼- .16¾
Zanzibar, bls.....lb. .17¼- .17¾
futures, bls.....lb. .17¼- .17¾
Clover tops, red, dom., bgs....lb. .50 - .55
imported, bgs.....lb. No stocks
Coaltar, coal-gas, crude, 50 gal., bbls., c.l., works..bbl. 8.25 - —
l.c.l., works.....bbl. 8.75 - —
tanks, works.....gal. .07½- .08½
refd., 50-gal., bbls., c.l., works. bbl. 8.75 - —
l.c.l., works.....bbl. 9.25 - —
tanks, works.....gal. .08½- —
water-gas, crude, 55 gal., dms., c.l., works..bbl. 8.25 - —
l.c.l., works.....db. 8.75 - —

Coaltar, water-gas, refd., 55-gal. dms., c.l., works..dm. 8.75 - —
l.c.l., works.....dm. 9.25 - —
Cobalt acetate, bbls., kgs., dlvd.. lb. .83¾- —
feed grade, 49.5% Co, kgs..lb. 1.25 - —
Carbonate, powd., bgs., works.. lb. 1.58 - —
feed grade, 23% Co, kgs....lb. 1.85 - —
Chloride, kgs., works.....lb. .87½- —
feed grade, 24.5% Co, kgs..lb. 1.25 - —
Hydrate, bbls.....lb. 2.04 - —
feed grade, 62% Co, kgs....lb. 2.25 - —
Linoleate, paste, 5%, dms...lb. .32 - .35
solid, 8½%, dms.....lb. .44 - —
Nitrate, feed grade, 20.4% Co, kgs..lb. 1.25 - —
Oleate, bbls.....lb. .44 Nom.
Oxide,[1] black, kgs.....lb. 1.84 - —
Phosphate, feed grade, 34% Co, kgs..lb. 1.75 - —
Resinate, precip., 7.5% Co, 100-lb. dms..lb. .33½- —
Soyate, 8%-8.5% Co, 50-gal. dms..lb. .42 - .44
Sulphate,[6] dms.....lb. .65 - —
feed grade, 21% Co, kgs....lb. 1.00 - —
Cobalt salts, feed grade, quotations are f.o.b. Philadelphia, Cleveland or New York.
Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —
Cocaine hydrochloride, 100-oz. lots, cns..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .46 - .47
silver, Teneriffe, bgs.....lb. .47 - .48
Cocoa butter,[1,7] bulk, ship. pt..lb. .25 - —
Cocillana bark, bgs.....lb. .60 - .61
Codeine, cns., 100 ozs.....oz.11.70 - —
Hydrochloride, cns., 100 ozs..oz.10.50 - —
Phosphate, cns., 100 ozs.....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls.....lb. .23 - .23
blue, bls.....lb. .24 - .25

Colchinine, bots., cns.....oz. No stocks
Colchicum seed.....lb. No stocks
Collodion, USP, dms.....lb. .19½- .20½
cns.....lb. .23 - .29½
Flexible, USP, dms.....lb. .21 - .22
cns.....lb. .25 - .31
Colocynth pulp, bls.....lb. .52 - .53
Colombo root, bls.....lb. .12 - .14
Coltsfoot leaves, bgs.....lb. .70 - .72
Condurango bark, bgs.....lb. .17 - .18
Copaiba balsam, Para, cns....lb. No stocks
S. A., USP, cns.....lb. .95 - 1.00
Copper acetate, cupric, bbls., works..lb. .25¼- —
smaller containers, wks..lb. .27 - —
Carbonate, 52-54%, bbls....lb. .19½- .20¼
Chloride, anhyd., bbls.....lb. .22½- .23
crystals, bbls.....lb. .14¾- .17
Cyanide, tech., bbls.....lb. .34 - .38
Iodide, bots.....lb. .34 - .38
Metal,[1] electrolytic.....lb. .12 - .12½
Naphthenate, 6%-8% Cu, 50-gal. dms..lb. .15 - .17
Nitrate, tech., cryst., bbls..lb. .19¼- .20¼
Oleate, precip., bbls.....lb. .22½- .23½
Oxide, black, bbls., works..lb. .19 - .20
red, com'l, bbls., works....lb. .21 - .24½
Oxychloride-sulphate,[6] bgs...lb. .17 - .20
Resinate, precip., 8.5% Cu, 125-lb. dms..lb. .13½- .16
Sulphate,[1] 99%, cryst., bgs., c.l., works..100 lbs. 5.00 - —
l.c.l., 700 to 36,000 lbs.. 100 lbs. 5.15 - 5.50
monohydrated, bgs., in dms., 36,000-lb. lots, dlvd..... 100 lbs. 10.20 - —
smaller lots, dlvd..100 lbs.10.95 - —
dms., c.l., dlvd.....100 lbs. 8.95 - 9.20
l.c.l., dlvd.....100 lbs. 9.95 -10.20
Copperas, cryst., gran., bgs., c.l., works..ton.17.00 - —
l.c.l., works.....100 lbs. 1.55 - 2.00
bbls., c.l., works.....ton.20.00 - —
bulk, c.l., works.....ton.14.00 - —
Copra,[7] Coast, ship't.....lb. No prices
Coriander seed, Argentine, bgs. lb. .07 - .08
Indian, bgs.....lb. No stocks
Morocco, bgs.....lb. .08 - .08½
Peru, bgs.....lb. .08 - .08½
So. American, bgs.....lb. .10 - .10½
Corn silk, bls.....lb. .45 - .46
Corn sugar, tanners, chipped, bgs., c.l., dlvd..100 lbs. 3.905 - —
slabs, bbls., c.l., dlvd.... 100 lbs. 3.825 - —
Syrup, 42°, bbls., c.l., dlvd.. 100 lbs. 4.221 - —
43°, bbls., c.l., dlvd..100 lbs. 4.271 - —
Corrosive sublimate,[3] cryst., dms., 50 lbs. or more..lb. 2.07 - —
gran., powd., dms., 50 lbs. or more..lb. 1.92 - —
Cottonroot bark, bls.....lb. .35 - .40
Cottonseed hull ash, 32-36% pot-ash, bgs., dlvd..unit-ton. 1.20 - —
Meal,[1,7] 41% protein, bulk, Memphis, c.l..ton.59.00 -64.75
Coumarin,[1] cns., 5 lbs. or more.. lb. 2.75 - —
smaller lots.....lb. 2.90 - 3.10
Cramp bark, NF, bls.....lb. .80 - .81
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs. one ship't..lb. .51¼- —
smaller lots, bbls., kgs., lb. .52 - .52½
imported, bls.....lb. .50 - .55
Creosote carbonate, bots., cbys., lb. 2.10 - 2.30
Coaltar (see Cresol).
Oil,[2] coaltar, crude, tanks, works..gal. .15½- —
refined, dms., c.l., works, gal. .247 - .3325
l.c.l., same basis....gal. .26 - .35
tanks, same basis....gal. .18 - .18½
solution, tanks, works....gal. .141 - —
Wood, beech, bots., cbys....lb. .85 - 1.04
Hardwood, N.F., bots., cbys. lb. .60 - .77
Pine, dms.....gal. .31 - .32
Cresol,[2] special resin grades, dms., c.l., works, frt. equald., lb. .09½- .10½
l.c.l., same basis.....lb. .10 - .11
tanks, same basis.....lb. .08¾- .09¾
USP, dms., c.l., same basis..lb. .10¾- .11¾
l.c.l., same basis.....lb. .11¼- .11¾
tanks, same basis.....lb. .10 - .10½
Crotonaldehyde, 97%, l.c.l., 55 and 110-gal. dms..lb. .15 - —
5 and 10-gal. dms., works.. lb. .18 - —
Cryolite, nat.,[4] bgs., bbls., c.l., works..100 lbs. 9.50 - 9.75
bbls., l.c.l., works....100 lbs.10.00 - —
synth.,[4] bgs., bbls., c.l., frt. alld. E. of Miss. R..lb. .08½- —
l.c.l., works.....lb. .09¼- —
Cube root, 5% rotenone, bbls., works..lb. .40 - —
4% rotenone, bbls., works..lb. .32 - —
Cubeb berries, XX, bgs.....lb. No stocks
powd., cs.....lb. No stocks
Culvers root, bls.....lb. .35 - .40
Cumin seed, Cyprus, bgs.....lb. No stocks
Indian, bgs., futures.....lb. .34½- .35
Morocco, bgs.....lb. No stocks
Persian, bgs.....lb. .35 - .36
Syrian, bgs., futures.....lb. .33 - .33½
Cutch, bgs.....lb. No stocks
Cyanamide,[3] fertilizer mixing grades, guaranteed, 20.6% N, gran., bulk, Niagara Falls, Ont., contracts, bulk, unit-ton. 1.62½- —
21% N., pulv., bgs., same basis..unit-ton. 1.52½- —
Cyclohexane, tech., dms., c.l., works..lb. .10½- —
l.c.l., works.....lb. .11 - —
tanks, works.....lb. .09½- —
Cyclohexanol, 99%-100%, dms., works..lb. .21 - .28
Cyclohexanone, 97½% min., dms., c.l., works..lb. .30 - .32
tech., dms., c.l., works.....lb. .30 - —
l.c.l., works.....lb. .30½- —
tanks, works.....lb. .29 - —
Cyclopropane, USP, cyls., dlvd., gal. .27 - —

## D

Damiana leaves, bls.....lb. .35 - .40
Dandelion root, bls.....lb. .75 - .80
DDT, fiber, dms., c.l., works..lb. .45 - —
ton lots, works.....lb. .50 - —
tins, smaller lots, works...lb. .53 - .60
Decanol, normal, tech., dms., dlvd..lb. .35 - —
Deertongue, bls.....lb. .34 - .35
Defluorinated phosphate,[1] paper bgs., works..ton.35.75 - —
Degras,[1] common, bbls.....lb. .10 - .12
neutral, less 2% ffa, bbls....lb. .28 - .30
over 2% ffa, bbls.....lb. .26½- .28½
Derris root (see Cube root).
l.c.l.....lb. .10¼- .11¾
Dextrin, British gum, bgs., c.l., Chicago .....100 lbs. 4.93 - —
l.c.l.....100 lbs. 5.39 - —
Chicago .....100 lbs. 5.03 - —
Corn, canary, bgs., c.l..100 lbs. 5.04 - —
Chicago .....100 lbs. 4.68 - —
l.c.l.....100 lbs. 5.14 - —
Chicago .....100 lbs. 4.78 - —


MONTROSE Chemical Company
LISTER AVENUE, NEWARK, NEW JERSEY
SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N.Y.
TRIBUNE TOWER, CHICAGO, ILLINOIS

| | | | |
|---|---|---|---|
| Dextrin, corn, white, bgs., c.l... | | | |
| 100 lbs. | 4.07 | - | — |
| Chicago .....100 lbs. | 4.61 | - | — |
| l.c.l. .....100 lbs. | 5.07 | - | — |
| Chicago .....100 lbs. | 4.71 | - | — |
| Potato, bgs., c.l. .....lb. | .10 | - | — |
| l.c.l. .....lb. | .10¼ | - | .11¼ |
| Diacetone (see Alcohol, diacetone). | | | |
| Diacetyl, flavor grades, bots...lb. | 5.50 | - | 5.55 |
| Diaboratory grade, bots..... | | | |
| 100 grams. | 4.50 | - | — |
| Diatech., bots., works.....lb. | 3.00 | - | — |
| Diamyl ether (see Amyl ether). | | | |
| Diphthalate,[6] dms., c.l., dlvd..lb. | .2170 | - | .2200 |
| l.c.l., dlvd. .....lb. | .2220 | - | .2250 |
| tanks, dlvd. .....lb. | .2070 | - | .2100 |
| Disulphide, l.c.l., dms., works.lb. | .25 | - | — |
| Diatomaceous earth, dom., CP, bgs., c.l., Atlantic Coast..lb. | .07 | - | — |
| l.c.l., ex whse.....lb. | .10 | - | .16 |
| Dinat. bgs., c.l., Pacific Coast. | | | |
| ton. | 22.00 | - | 25.00 |
| l.c.l., ex whse.....ton. | 45.00 | - | — |
| Dipurified, bgs., c.l., Atlantic coast..ton. | 55.00 | - | 59.00 |
| l.c.l., ex whse.....ton. | 85.00 | - | 90.00 |
| Dimported, Algerian, bgs., c.l., Atlantic coast..ton. | No prices | | |
| Dimexican, white, bgs., c.l., Atlantic coast..lb. | .02 | - | .03 |
| l.c.l. .....lb. | .04 | - | .06 |
| Dibutyl, phthalate,[1] 5-gal. cns., works..lb. | .2250 | - | .2909 |
| 1-gal. cns., works.....lb. | .2450 | - | .3109 |
| dms., c.l., works.....lb. | .1700 | - | .2259 |
| l.c.l., works.....lb. | .1750 | - | .2409 |
| tanks, works.....lb. | .1600 | - | .2259 |
| Sebacate,[1] dms., c.l., works..lb. | .5000 | - | .5370 |
| l.c.l., works.....lb. | .5050 | - | .5420 |
| tanks, works.....lb. | .4900 | - | .5270 |
| Tartrate, dms., works, frt. alld. lb. | .92 | - | 1.02 |
| Dibutylamine, dms., c.l., works.. lb. | .66 | - | — |
| l.c.l., works.....lb. | .69 | - | — |
| Dichlorodiphenyltrichloroethane (see DDT). | | | |
| Dichloroethyl ether,[6] purified, dms., c.l., works, frt. equald with So. Charleston..lb. | .16 | - | — |
| l.c.l., same basis.....lb. | .17 | - | — |
| tanks, same basis.....lb. | .15 | - | — |
| Diethanolamine,[6] dms., c.l., frt. alld. in E..lb. | .23½ | - | — |
| l.c.l., same basis.....lb. | .24½ | - | — |
| tanks, same basis.....lb. | .22½ | - | — |
| Diethyl carbonate, com'l, dms..lb. | .25 | - | — |
| refd., 90%, dms.....lb. | .80 | - | — |
| Oxalate, dms., c.l., dlvd.....lb. | .30½ | - | — |
| l.c.l., dlvd.....lb. | .31 | - | — |
| Phthalate,[6] dms., c.l., dlvd..lb. | .21½ | - | — |
| l.c.l., dlvd.....lb. | .22 | - | — |
| tanks, dlvd.....lb. | .20½ | - | — |
| Sulphate, dms., c.l., works..lb. | .14 | - | — |
| l.c.l., works.....lb. | .15 | - | — |
| tanks, works.....lb. | .13 | - | — |
| Diethylamine, dms., c.l., works.lb. | .44 | - | — |
| l.c.l., works.....lb. | .46 | - | — |
| tanks, works.....lb. | .40 | - | — |
| Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss. R...lb. | .75 | - | — |
| Diethylaniline, dms.....lb. | .40 | - | — |
| Diethyleneglycol, dms., c.l., frt. alld. in E..lb. | .14 | - | — |
| l.c.l., same basis.....lb. | .15 | - | — |
| tanks, same basis.....lb. | .13 | - | — |
| Dimonobutylether, dms., c.l., works..lb. | .22 | - | — |
| l.c.l., works.....lb. | .23 | - | — |
| tanks, works.....lb. | .21 | - | — |
| Dimonoethylether, dms., c.l., wks. lb. | .15½ | - | — |
| l.c.l., works.....lb. | .16½ | - | — |
| tanks, works.....lb. | .14½ | - | — |
| Dimonoethylether, dms., c.l., wks. lb. | .15½ | - | — |
| l.c.l., works.....lb. | .16½ | - | — |
| tanks, works.....lb. | .14½ | - | — |
| Digitalis leaves, dms.....lb. | 1.10 | - | 1.15 |
| Diglycol laurate, dms.....lb. | .31 | - | .32 |
| Oleate, light, bbls., c.l.....lb. | .17 | - | — |
| Stearate, bbls., c.l.....lb. | .23 | - | — |
| Dihydroxydichlorodiphenylmethane, dms., works of N.Y. met..lb. | .95 | - | 1.00 |
| smaller containers, same basis lb. | 1.05 | - | 1.40 |
| Di-isobutyl ketone, dms., works. lb. | .19 | - | — |
| Dillseed, natural, afloat, bgs..lb. | .09 | - | .09½ |
| decorticated, bgs.....lb. | .13 | - | .13½ |
| dewhiskered, bgs.....lb. | .09½ | - | .09¾ |
| Dimethyl phathalate, dms., c.l., dlvd..lb. | .20 | - | — |
| l.c.l., dlvd.....lb. | .20½ | - | — |
| tanks, dlvd.....lb. | .19 | - | — |
| Dimethylamine, dms., c.l., dlvd. lb. | .85 | - | — |
| l.c.l., dlvd.....lb. | .90 | - | — |
| Dimethylaniline, dms., c.l.....lb. | .21 | - | — |
| l.c.l. .....lb. | .22 | - | — |
| Dinitrobenzene, bbls.....lb. | .18 | - | — |
| Dinitrochlorobenzene, dms.....lb. | .14 | - | — |
| Dinitronaphthalene, kgs.....lb. | .35 | - | .38 |
| Dinitrophenol, bbls.....lb. | .22 | - | — |
| Dinitrotoluene, dms.....lb. | .18 | - | — |
| Dioxane, dms.....lb. | .06 | - | — |
| Diorthotolylguanidin, dms., ton lots, dlvd..lb. | .44 | - | — |
| smaller lots, dlvd.....lb. | .46 | - | .47 |
| Dioxan, dms.. c.l., frt. alld..lb. | .20 | - | — |
| l.c.l., same basis.....lb. | .21 | - | — |
| tanks, same basis.....lb. | .19 | - | — |
| Dip oil (see Tar acid oil). | | | |
| Dipentene,[1] destructive dist., dms., dlvd. E..gal. | .55 | - | .56 |
| tanks, dlvd. E.....gal. | .45 | - | — |
| steam-dist., dms., dlvd. E..gal. | .56 | - | .58 |
| tanks, dlvd. E.....gal. | .52 | - | .53 |
| Diphenyl,[6] bbls., c.l., works...lb. | .15 | - | — |
| l.c.l., works.....lb. | .16 | - | .20 |
| Oxide, perfume grade, cns...lb. | .48 | - | .50 |
| dms. .....lb. | .43 | - | .45 |
| Diphenylamine, bbls.....lb. | .25 | - | — |
| Diphenylguanidin, dms., tons..lb. | .35 | - | — |
| smaller lots.....lb. | .36 | - | .37 |
| Divi-divi,[1,8] 42% tannin, c.l., U.S. ports, ex dock..ton. | 70.00 | - | 71.00 |
| 38% tannin, c.l., same basis.. ton. | 68.00 | - | 69.00 |
| Doggrass root, dom., cut, bls.lb. | .30 | - | .35 |
| imp., NF, cut, bls.....lb. | .48 | - | .50 |
| Dogwood, Jamaica, bark, bls..lb. | .12 | - | .14 |
| Dover's powder, USP, cns....lb. | No stocks | | |
| Dragon's blood, drops, cs.....lb. | .55 | - | .60 |
| reeds, cs.....lb. | No stocks | | |
| Dyes, coaltar (certified colors for foods, drugs and cosmetics), 5-lb. lots— | | | |
| Blue, FD&C, No. 1, cns.....lb. | 13.00 | - | — |
| Green, FD&C, No. 1 cns....lb. | 13.00 | - | — |
| No. 2, cns.....lb. | 17.00 | - | — |
| No. 3, cns.....lb. | 27.00 | - | — |
| Orange, FD&C, No. 1, cns..lb. | 2.80 | - | — |
| No. 2, cns.....lb. | 3.55 | - | — |
| Red, FD&C, No. 1, cns.....lb. | 5.75 | - | — |
| No. 2, cns.....lb. | 3.05 | - | — |
| No. 3, cns.....lb. | 17.00 | - | — |
| No. 4, cns.....lb. | 5.50 | - | — |
| No. 32, cns.....lb. | 4.05 | - | — |
| Yellow, FD&C, No. 1 cns..lb. | 8.00 | - | — |
| No. 3, cns.....lb. | 2.55 | - | — |
| No. 4, cns.....lb. | 2.55 | - | — |
| No. 5, cns.....lb. | 3.05 | - | — |
| No. 6, cns.....lb. | 3.05 | - | — |
| Dyes, coaltar (certified colors for drugs and cosmetics), 1-lb. lots— | | | |
| Black, D&C, No. 1, cns.....lb. | 8.85 | - | — |
| Blue, D&C, No. 4, cns.....lb. | 12.35 | - | — |
| Brown, D&C, No. 1, cns....lb. | 12.85 | - | — |
| Green, D&C, No. 5, cns.....lb. | 12.85 | - | — |
| No. 6, cns.....lb. | 12.35 | - | — |
| Orange, D&C, No. 3, cns....lb. | 8.35 | - | — |
| No. 4, cns.....lb. | 15.35 | - | — |
| No. 10, cns.....lb. | 15.85 | - | — |

| | | | |
|---|---|---|---|
| Dyes, coaltar (certified colors for drums and cosmetics), 1-lb. lots— | | | |
| Red, D&C, No. 8, cns.....lb. | 2.85 | - | — |
| No. 17, cns.....lb. | 8.35 | - | — |
| No. 18, cns.....lb. | 16.35 | - | — |
| Yellow, D&C, No. 7, cns....lb. | 8.35 | - | — |
| No. 8, cns.....lb. | 8.35 | - | — |
| No. 11, cns.....lb. | 10.35 | - | — |
| No. 19, cns.....lb. | 15.35 | - | — |
| No. 22, cns.....lb. | 8.35 | - | — |
| No. 33, cns.....lb. | 13.35 | - | — |
| No. 37, cns.....lb. | 12.35 | - | — |
| Dyes, coaltar (certified colors for external use drugs and cosmetics), 1-lb. lots— | | | |
| Blue, Ext. D&C, No. 1, cns..lb. | 12.35 | - | — |
| Green, Ext., D&C, No. 1, cns. lb. | 12.35 | - | — |
| Red, Ext. D&C, No. 1, cns..lb. | 10.35 | - | — |
| No. 3, cns.....lb. | 21.85 | - | — |
| No. 8, cns.....lb. | 7.85 | - | — |
| No. 10, cns.....lb. | 12.35 | - | — |
| No. 13, cns.....lb. | 12.35 | - | — |
| Yellow, Ext. D&C, No. 1, cns. lb. | 8.35 | - | — |
| Dyes, coaltar, for general uses (numbers are those of Colour Index scale)— | | | |
| 83 Chrome yellow, 2G...lb. | .65 | - | .70 |
| 40 Chrome yellow R.....lb. | .50 | - | 1.00 |
| 53 Victoria violet.....lb. | .80 | - | 1.00 |
| 165 Lake red C.....lb. | .70 | - | .80 |
| 170 Fast red A.....lb. | .56 | - | .60 |
| 180 Fast red VR.....lb. | 1.50 | - | 1.60 |
| 189 Lake red R, paste..lb. | .85 | - | .90 |
| 189 Lake red R, powd...lb. | 3.00 | - | 3.10 |
| 202 Chrome blue black U.lb. | .35 | - | .42 |
| 204 Chrome black A.....lb. | .42 | - | .45 |
| 208 Fast red blue R....lb. | .75 | - | 2.00 |
| 216 Chrome red B.....lb. | 1.75 | - | 2.00 |
| 262 Cloth red 2B.....lb. | .60 | - | .80 |
| 289 Fast cyanin 5R.....lb. | .90 | - | 1.00 |
| 299 Chrome black F.....lb. | .85 | - | .88 |

| | | | |
|---|---|---|---|
| Dyes, coaltar, for general uses (numbers are those of Colour Index scale)— | | | |
| 304 Paper yellow .....lb. | .83 | - | .90 |
| 307 Fast cyanin black B.lb. | .80 | - | .85 |
| 326 Direct fast scarlet...lb. | 2.00 | - | 2.25 |
| 365 Chyrophenin G.....lb. | .68 | - | .70 |
| 382 Direct scarlet B.....lb. | 1.15 | - | 1.20 |
| 387 Direct violet B.....lb. | 1.00 | - | 1.30 |
| 394 Direct violet N.....lb. | .80 | - | .85 |
| 401 Developed black BHN, lb. | .45 | - | .60 |
| 406 Direct blue 2B.....lb. | .66 | - | .70 |
| 415 Direct orange B.....lb. | .60 | - | .70 |
| 419 Direct fast red F....lb. | .70 | - | .73 |
| 420 Direct brown M.....lb. | .55 | - | .57 |
| 448 Benzo purpurin 4B...lb. | .65 | - | .68 |
| 495 Benzo purpurin 10B..lb. | .40 | - | .50 |
| lb. | .35 | - | .50 |
| 502 Direct azcrin G.....lb. | .75 | - | .80 |
| 512 Direct blue RD.....lb. | .80 | - | 1.00 |
| 518 Direct pure blue 6B..lb. | 1.20 | - | 1.30 |
| 520 Direct pure blue.....lb. | .50 | - | 1.00 |
| 529 Direct fast black FF.lb. | .55 | - | 1.00 |
| 581 Direct black EW.....lb. | .50 | - | .54 |
| 582 Direct black RX.....lb. | .35 | - | .45 |
| 592 Direct green B.....lb. | .50 | - | .55 |
| 594 Direct green G.....lb. | .50 | - | .55 |
| 596 Direct brown 3GO...lb. | .85 | - | 1.00 |
| 620 Direct yellow R.....lb. | 1.25 | - | 1.50 |
| 698 Acid violet .....lb. | 1.00 | - | 3.00 |
| 812 Primulin .....lb. | .70 | - | .73 |
| 814 Direct fast yellow...lb. | 2.00 | - | 2.25 |
| 845 Nigrosin (water soluble). | | | |
| 1177 Indigo, 20%, paste....lb. | .15 | - | .18 |
| Benzo fast black L.lb. | .90 | - | 1.00 |
| Sulphur black .....lb. | .20 | - | .25 |
| Sulphur blue .....lb. | .45 | - | 1.00 |
| Sulphur brown.....lb. | .25 | - | .50 |
| Sulphur maroon ....lb. | .40 | - | — |
| Sulphur tan .....lb. | .30 | - | .50 |
| Sulphur olive .....lb. | .25 | - | .54 |
| Sulphur yellow ....lb. | .30 | - | .50 |
| Zambesi black.....lb | .75 | - | .80 |

| | | | |
|---|---|---|---|
| Dyes, coaltar, fur stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25 lbs. lots and up, 3c. per lb. higher, sellers' works or warehouse). | | | |
| Black— | | | |
| 865 Nigrosin derivatives ...lb. | .36 | - | .44 |
| Blue— | | | |
| 7075 Alizarin astral base...lb. | 13.00 | - | — |
| 1078 Alizarin cyanin, green base..lb. | 6.00 | - | — |
| Brown— | | | |
| Brown .....lb. | 1.15 | - | — |
| Green— | | | |
| 1078 Alizarin cyanin green.lb. | 5.00 | - | — |
| Green .....lb. | .75 | - | — |
| Orange— | | | |
| 24 Sudan I .....lb. | .75 | - | — |
| Red shade .....lb. | .75 | - | — |
| Red— | | | |
| 75 Sudan II .....lb. | 1.05 | - | — |
| 258 Sudan IV .....lb. | .85 | - | — |
| 680 Oil violet .....lb. | .60 | - | — |
| 749 Rhodamine B (oil pink). lb. | 2.50 | - | — |
| 1050 Anthraquinone, violet base..lb. | 2.00 | - | — |
| Yellow— | | | |
| 15 Amidoazobenzene yellow.. lb. | .90 | - | — |
| 17 Amidoazotoluene yellow. lb. | .75 | - | — |
| 61 Yellow OB.....lb. | 1.40 | - | 2.00 |
| Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse). | | | |
| Black— | | | |
| 246 Naphthol blue black S.. lb. | .50 | - | — |
| 729 Victoria blue B.....lb. | 1.85 | - | — |
| 861 Indulin .....lb. | .87 | - | — |
| 873 Methylene gray.....lb. | 1.50 | - | — |
| 909 New blue F.....lb. | 1.20 | - | — |
| 922 Methylene blue.....lb. | 1.00 | - | — |
| 1054 Alizarin saphirol B....lb. | 1.90 | - | — |
| 1130 Indigotin IA.....lb. | .85 | - | — |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**Dyes, coaltar, for stains, oil-soluble (prices E. in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).**

Blue—
714 Patent blue A.....lb. 1.05 - 1.10
Brown—
231 Bismarck brown G.....lb. .47 - .63
234 Resorcin brown Y.....lb. .65 - —
235 Resorcin dark brown R. lb. .66 - —
632 Bismarck brown R....lb. .47 - .63
793 Phosphin .....lb. 4.65 - —
Green—
5 Naphthol green B.....lb. 1.00 - —
657 Malacrite green.....lb. 1.35 - —
662 Brilliant green.....lb. 2.00 - —
666 Guinea green B.....lb. 1.15 - —
737 Wool green S.....lb. .78 - —
924 Methylene green B....lb. 1.55 - —
1078 Alizarin cyanin green..lb. 2.00 - —
Orange—
10 Chrysodin G.....lb. .44 - —
21 Chrysodin R.....lb. .41 - —
27 Orange G.....lb. .50 - —
31 Amidonaphthol red G.lb. .42 - —
37 Amidonaphthol red 6B.lb. .68 - —
151 Orange Y.....lb. .51 - .33
161 Orange R.....lb. .24 - —
Red—
79 Ponceau R.....lb. .48 - —
88 Fast red B.....lb. 1.65 - —
176 Fast red A.....lb. .54 - —
179 Azorubin .....lb. .60 - —
183 Crocein scarlet 3BX....lb. .72 - .75
185 Cochineal red A.....lb. .60 - —
252 Brilliant crocein M....lb. .68 - —
677 Fuchsin .....lb. 2.10 - —
749 Rhodamine B.....lb. 3.50 - —
752 Rhodamine 6B.....lb. 4.50 - —
768 Eosin G.....lb. 1.50 - —
841 Safranin .....lb. 1.45 - —
Violet—
680 Methyl violet B.....lb. .70 - .75
681 Crystal violet B.....lb. 1.75 - —
695 Acid violet 4BN.....lb. .68 - —

**Dyes, coaltar, for stains, spirit-soluble (prices in barrels of 250 lbs. each; 25-lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).**

Yellow—
10 Naphthol yellow S.....lb. .53 - —
138 Metanil yellow.....lb. .56 - .58
636 Fast light yellow.....lb. 1.25 - —
639 Xylene light yellow....lb. 1.15 - —
640 Tartrazin .....lb. .80 - —
655 Auramine .....lb. 1.27 - —

**Dyes, coaltar, for stains, water-soluble (prices E. in barrels of 250 lbs. each; 25 lb. lots and up, 3c. per lb. higher, sellers' works or warehouse).**

Black—
864 Nigrosin .....lb. .36 - .44
Blue—
860 Indulin .....lb. .60 - .70
Brown—
331 Bismarck brown.....lb. 1.50 - —
Green—
637 Malachite green base..lb. 2.00 - —
Orange—
20 Chrysoidin G.....lb. .95 - —
21 Chrysoidin R.....lb. .96 - —
Red—
677 Fuchsin, magenta, base.. lb. 7.25 - —
749 Rhodamine R.....lb. 4.75 - —
Yellow—
67 Amidoazotoulene yellow.. lb. .75 - —
655 Auramine .....lb. 2.00 - —
800 Chinolin yellow SS.....lb. 2.00 - —
Violet—
680 Methyl violet base....lb. .85 - —

Dyes, natural (see name of article).

# E

Echinacea root, bls.....lb. .70 - .75
Egg,[1,7] albumen (see Albumen).
Yolk,[1,7] dried, dom., bbls....lb. 1.04 - 1.10
imported .....lb. No stocks
Elder flowers, bright, bls.....lb. .75 - .85
Elecampane root, bls.....lb. .50 - .55
Elm bark, grinding, bls.....lb. .35 - .36
powd., bbls., bxs.....lb. .53 - .56
select, bndls. .....lb. .55 - .56
Emetine hydrochloride, bots..oz.53.50 -56.00
Ephedra, bls.....lb. .28 - .30
Ephedrine, natural, USP, anhydrous, bots..oz. 1.15 - 1.65
Hydrochloride, tins .....oz. .95 - 1.45
Sulphate, tins .....oz. .95 - 1.45
Synthetic, USP, anhydrous, bots..100 ozs. .65 - —
hydrous, bots, 100 oz...ozs. .65 - —
Hydrochloride, tin, 100 ozs.oz. .50 - —
Sulphate, cryst., tins, 100 ozs. oz. .48 - —
Epinephrine, synth., USP, bots. gram. .75 - —
Epsom salt, tech., cryst., bgs., c.l....100 lbs. 1.80 - 1.95
l.c.l. .....100 lbs. 2.15 - 2.40
dried, bgs.....lb. 03½- —
l.c.l., bgs.....lb. .04 - .07
USP, cryst., bgs., l.c.l.100 lbs. 2.00 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.25 - —
smaller lots.....100 lbs. 2.50 - —
bbls., c.l. .....100 lbs. 2.10 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.35 - —
smaller lots.....100 lbs. 2.60 - —
kgs., c.l. .....100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.60 - —
smaller lots.....100 lbs. 2.85 - —

Epsom salt prices freight equalized with Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland, Houston, New Orleans, New York.

Ergot, USP, cns.....lb. 1.65 - 1.70
Eserine, bots.....oz No prices
Sulphate, 1-gram, vials....vial. 2.10 - —

Ether, acetic (see Ethyl acetate).
Amyl (see Amyl ether).
Butyl, l.c.l., dms., dlvd.....lb. .30 - —
Ethyl (see Ether, sulphuric).
Nitrous, cons., bots., 100 lbs. lb. .93 - 1.10
Sulphuric, cons., dms.....lb. .11 - .16
USP anesthesia, hospitals, 1-lb. cns..lb. .60 - .61
Synthetic, dms., c.l., frt. alld. lb. .11 - —
l.c.l., same basis .....lb. .12 - —
tanks, same basis.....lb. .09 - —
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld..lb. .1275- —
l.c.l., frt. alld.....lb. .1325- —
tanks, frt. alld.....lb. .1175- —
95-98%, dms., c.l., frt. alld. lb. .13 - .1335
l.c.l., frt. alld.....lb. .1350- .1385
tanks, frt. alld.....lb. .12 - .1235
99%, dms., c.l., frt. alld.lb. .13 - .1345
l.c.l., frt. alld.....lb. .1350- .1395
tanks, frt. alld.....lb. .12 - .1245
synthetic, 85-90%, dms., c.l., frt. alld..lb. .09½- —
l.c.l., frt. alld.....lb. .10 - —
tanks, frt. alld.....lb. .08½- —
95-98%, dms., c.l., frt. alld. lb. .09¾- —
l.c.l., frt. alld.....lb. .10¼- —
tanks, frt. alld.....lb. .08¾- —
N.F., dms.....lb. .14½- .16½
Acetoacetate, dms., c.l., works. lb. .37½- —
l.c.l., frt. alld.....lb. .38 - —
Benzoate, bots .....lb. .50 - .52
Bromide, tech., dms.....lb. .50 - .55
Carbamate, dms., dvid. E...lb. .58 - —
Chloride, tech., dms.....lb. .18 - .20
USP, bbls., cyl.....lb. .20 - .22
Cinnamate, cns. .....lb. 2.65 - 3.00
Formate, dms., Agnue, Calif., lb. .26 - .32
Iodide, bots.....lb. 3.50 - 3.60
Lactate, dms., works.....lb. .53½- .59½
Myristate, dms., works.....lb. .55 - —
Oenanthate, dms. .....lb. 1.10 - 1.15
Oleate, dms., l.c.l., works..lb. .47 - —
Oxalate, dms., frt. alld.....lb. .33 - —
Silicate, dms., l.c.l., works..lb. .77 - —
Ethylcellulose, pkgs., 5,000 lbs. or more, works..lb. .50 - —
smaller lots, works.....lb. .52 - .60
Ethyldiethanolamine, dms., l.c.l., works..lb. .80 - —
Ethylene, dichloride, dms., c.l., works, frt. alld. E. of Rockies, frt. alld..lb. .0842- —
West of Rockies..lb. .0891- —
l.c.l., works, frt. alld. E. of Rockies..lb. .0891- —
West of Rockies..lb. .0941- —
tanks, frt. alld. E. of Rockies, lb. .0743- —
West of Rockies..lb. 0792- —
Trichloride (see Trichloroethane).
Ethyleneglycol, dms., c.l., frt alld. in E... .10 - —
l.c.l., same basis.....lb. .11 - —
tanks, same basis.....lb. .09 - —
Monobutylether, dms., c.l., wks. lb. .17½- —
l.c.l., works .....lb. .18½- —
tanks, works .....lb. .16½- —
Monoethylether, dms., c.l., wks. lb. .15½- —
l.c.l., works .....lb. .16½- —
tanks, works .....lb. .14½- —
Monoethylether acetate, dms., c.l., works..lb. .13½- —
l.c.l., works .....lb. .14½- —
tanks, works .....lb. .12½- —
Monobutylether, dms., c.l., wks. lb. .16½- —
l.c.l., works .....lb. .17½- —
tanks, works .....lb. .15½- —
Ethylethanolamine, dms., c.l., wks. lb. .57 - —
l.c.l., works .....lb. .60 - —
Ethylmonoethanolamine, l.c.l., dms., works..lb. .80 - —
Ethylmorphine, hydrochloride, bots. oz.10.50 -10.75
Ethylvanillin,[1] cns., 5 lbs. or more..lb. 5.25 - —
smaller lots .....lb. 5.50 - 5.40
Eucalyptol, cns., dms.....lb. 2.85 - 3.25
Eucalyptus leaves, bls.....lb. .14 - .15
Eugenol, cns., dms.....lb. 2.65 - 3.25
Euphorbia, bls.....lb. .13 - .14

# F

Feldspar,[1] enamel, 100 mesh, ton.17.00 -20.50
bulk, c.l. .....ton.14.00 -17.50
glass, 20 mesh, bgs., works, min. 2 tons..ton.12.75 -16.25
bulk, c.l. .....ton. 9.75 -12.25
pottery, bgs., l.c.l., works, min. 2 tons..ton.20.00 -22.00
bulk, c.l., works.....ton.17.00 -19.00
Fennel seed, Argentine, bgs., futures..lb. .21 - .22
Indian, bgs., futures.....lb. .20 - .20½
Fenugreek, domestic, bgs.....lb. No stocks
Indian, bgs., futures.....lb. .10 - .10½
Morocco, bgs. .....lb. .10½- .11
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works.lb. .13½- .15
water-white, cs., works.....lb. .14½- .11
Fir balsam, Canada, cns....gal.19.00 -19.50
Oregon, bbls. .....gal. 2.35 - 2.40
Fishberries, bgs. .....lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal,[1,7] grd., 60% protein, bgs., E. works..ton.82.50 - —
65% protein, bgs., E. works. ton.88.50 - —
Fishscrap,[7] dried, 60% protein, bulk, East coast..ton.74.00 - —
Flake white, bbls.....lb. .09 - —
kegs .....lb. .11 - —
Fleaseed, black, bgs.....lb. .60 - .62
Blonde, bgs.....lb. .19 - .20
Fluorspar,[1] No. 1, ground, 95-98% $CaF_2$ bulk, c.l., mines, net ton.37,000- —
washed, gravel, 70% or more $CaF_2$, c.l., bulk, mines. ton.33.000 - —
65% c.l., bulk, mines....ton.32.00 - —
60%, c.l., bulk, mines....ton.31.00 - —
less than 60%, c.l., bulk, mines..ton.30.00 - —
Formaldehyde,[1] bbls., c.l., works, lb. .0520- —
l.c.l., works .....lb. .0570- —
dms., extra, c.l., works.....lb. .0460- —
l.c.l., works .....lb. .0510- —
tanks, works. .....lb. .0320- —
tanktrucks, blvd., N.Y.C....lb. .0345- —
Fringetree bark, bls.....lb. .55 - .56
Fuller's earth,[1] dom., powd., bgs., c.l., Fla., Ga. mines, ton. 8.50 -15.00
Tex. mines .....ton.12.50 - —
spent, bulk, Bayonne...ton. 3.00 - —
imp., bgs., c.l.....ton.30.00 -40.00
Furfural, ref., dms., c.l. works. lb. .15½- —
cns., dms., l.c.l., works....lb. .18½- .25½
tech., dms., c.l., works.....lb. .13 - —
l.c.l., cns., dms.....lb. .15½- .20½
tanks, works .....lb. .09½- —

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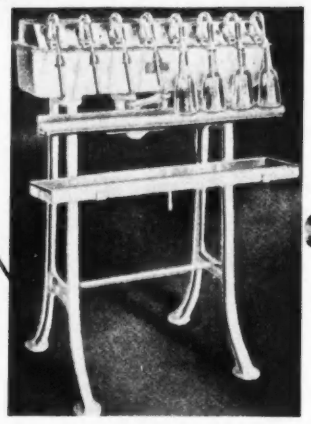
## Reasonably Prompt Shipments

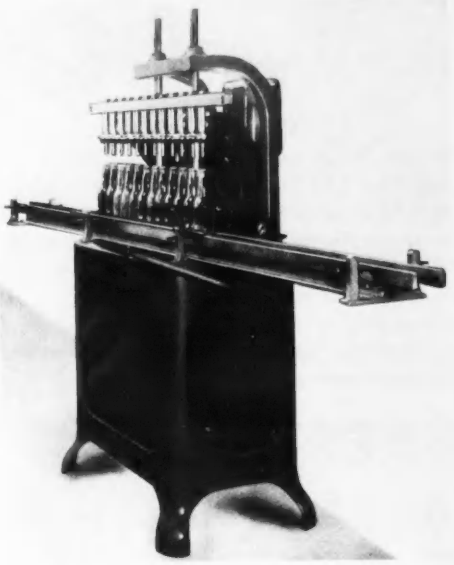
For the first time in four years, the First Machinery Corp. is in a position to solicit orders on our line of New Process Equipment. The material and labor situation has improved so greatly that on most items almost immediate delivery can be made; on others thirty or sixty day shipments prevail. Full data and price quotations supplied on request.



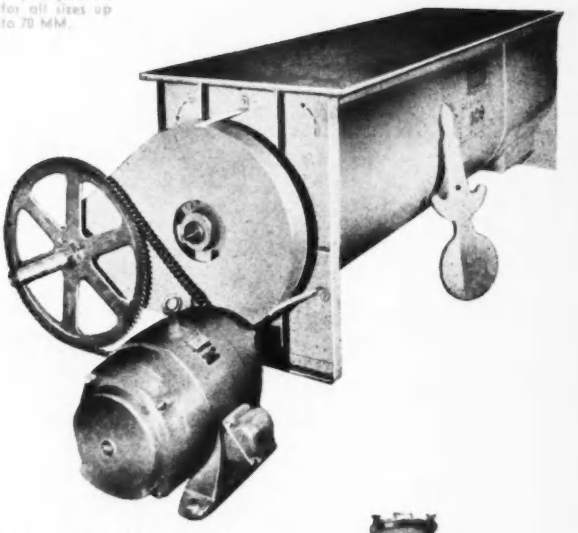
FMC SYPHON FILLERS, rotary or straight line operation; hundreds now in use all over the world; will fill up to gallons.

FMC Portable agitators, high speed or geared head motors; shafts and props. in sizes desired.

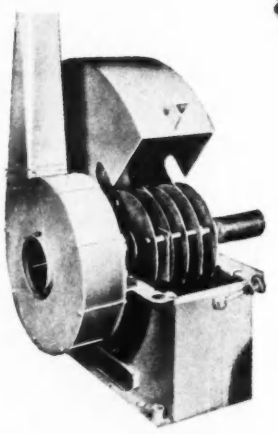
FMC Portable Cap Tighteners for all sizes up to 70 MM.



FMC VACUUM FILLER in Stainless or Bronze plated; will fill containers up to Gallons, any finish opening; highly adjustable; one operator 40-50 per minute.

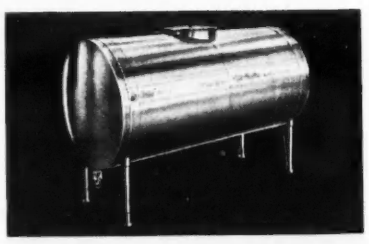


FMC DRY POWDER MIXERS, all steel; of double ribbon type; 400 lb. to 4000 lb. may be had with Sifter if desired.



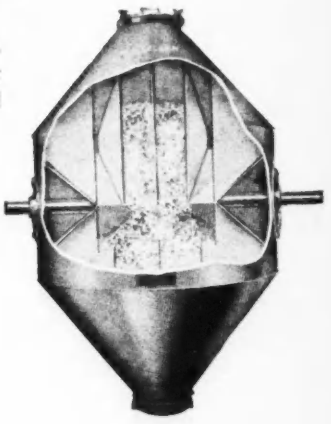
FMC PULVERIZER, or Hammer Mill or Granulator; swinging hammers with screen regulation of mesh; tremendous capacity; two sizes available.

**STAINLESS STEEL EQUIPMENT**



FMC STAINLESS STEEL KETTLES, TANKS and VACUUM PANS; a complete line for every purpose; jacketed for steam, water or unjacketed; all standard sizes; agitators if desired.

FMC BELT CONVEYOR in any width or length; variable speed; furnished with or without work boards.



FMC TUMBLING BATCH MIXERS from 1 cu. ft. to 60 cu. ft.; furnished complete with frame and drive and motor if desired.

FMC FIRST MACHINERY CORP.

157 HUDSON ST., NEW YORK 13, N. Y.

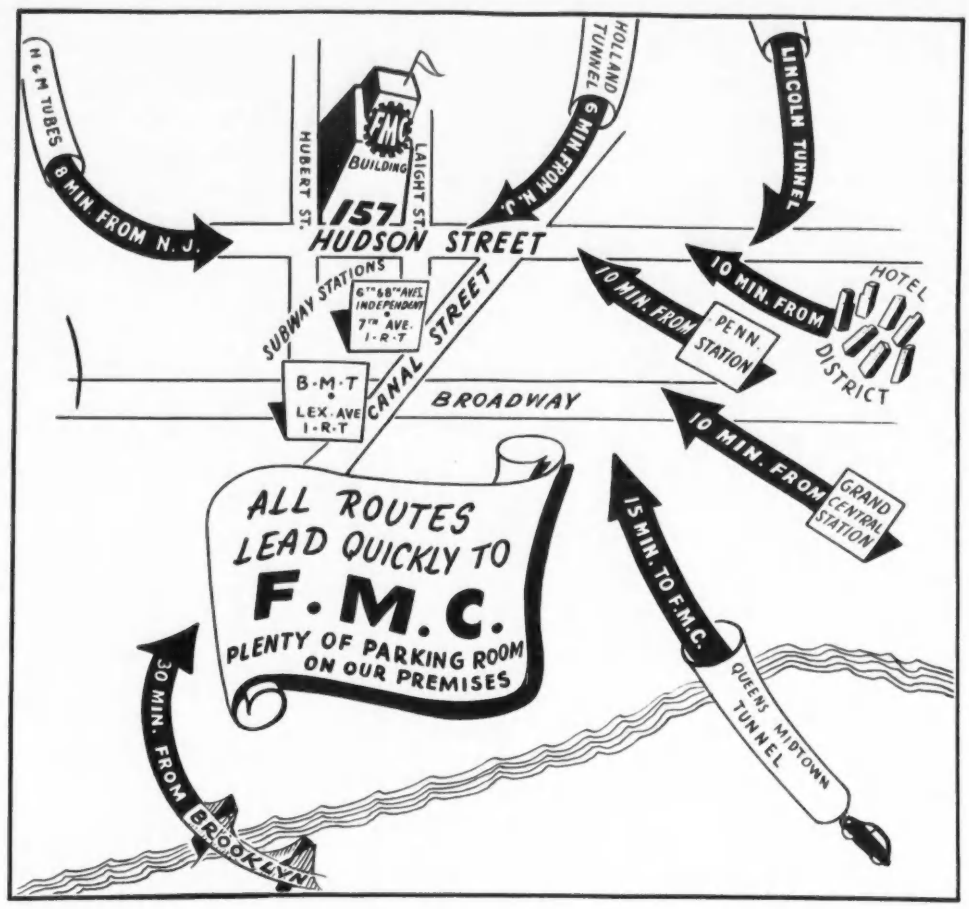
# New! FIRST MACHINERY HEADQUARTERS
## Most Easily Reached Spot In New York

FMC

The New FMC Equipment Headquarters at 157 Hudson Street, New York City, is not only the most easily reached spot in New York but also very efficiently organized to serve you best in our field. In addition to our tremendous stock of choice, highly desirable machines, we keep an up-to-the-minute index of thousands of units available all over the country. FMC is in excellent position to supply JUST the equipment you need or to find a customer for the machine you want to sell.

## FINEST FACILITIES for RECONDITIONING GOOD USED EQUIPMENT

Our newly equipped machine shop has been furnished with every piece of brand new machine tool required to rebuild and adapt our line of equipment; metal working and wood working devices will be skillfully used by a staff of expert master mechanics and we are depending on this set up to maintain the reputation and guarantee of FMC equipment.




## DESIRABLE EQUIPMENT AVAILABLE for Prompt Shipment

**STOKES AND COLTON TABLET MACHINES**
***Rotaries and Single Punch in good guaranteed condition for nearly every size tablet; for large or small production.***

- 2 Buffalo double door Vacuum Shelf Dryers, 20 shelves, 60"x160"; overall 16'10" wide x 21' long x 9'10" high.
- 1 Black & Clawson Double Drum Dryer; 28"x60" with accessories
- 3 Double Drum Atmospheric Dryers; 27½"x63"
- 1 Buffalo Double Drum Dryer; 32"x72"
- 1 Buffalo Single Drumchrome plated Dryer; 5'x6' with auxiliaries
- 2 Vacuum Drum Dryers; 48"x40" (1 iron, other Bronze, chromed)
- 1 Buffalo Vacuum Drum Dryer, 5'x20'
- 1 Rotary Vacuum Dryer; 3'x18' with auxiliaries
- 2 Galland & Henning Steam Tube Dryers; 6'x30'
- 1 Ruggles-Cole Rotary Dryer; 4'x20' with auxiliaries
- 1 Ross 4 Pass Continuous Conveyor Dryer; 60' long with accessories
- 2 Raymond IMP Mills No. 45 with accessories
- 1 Raymond IMP Mill 24" with accessories
- 7 Hardinge Conical Mills from 36" Dia. to 8'
- 2 Three Roll Water Cooled Calendars; 14"x48" and 18"x48".
- 1 Lehmann Four Roll Water Cooled Mill, 12¾x32.
- 1 Houchin-Aiken Three Roll Mill; 20"x48" arr. for P.D.
- 2 Buhler three roll Water Cooled Mills; 16"x40"-V Belt driven
- 1 Raymond "00" Mill with Dust Collector and accessories
- 1 Bauer Double Runner 30" Attrition Mill; P.D.
- 1 Sturdevant No. "0" Hammer Mill with 10 H.P. Motor
- 1 Paul Abbe 6'x8' Buhr Stone Lined Pebble Mill.
- 1 U.S. Colloid Mill No. 1 with 5 H.P. motor
- 2 Premier Colloid Mills; 7½ H.P. and 10 H.P. motors.
- 2 W & P jacketed heavy duty Mixers, 9 gallon and 20 gallon.
- 1 Simpson Intensive Mixer, 6' diameter.
- 1 Sharples No. 16 Centrifuge with Monel Contact Parts
- 1 Sharples Centrifuge Type M4P with Stainless Contact Parts
- 1 Sharples No. 6 Centrifuge with tinned bowl
- 3 Tolhurst & American 48" Centrifugal Extractors; 1 (Rubber) 2 (S.S.)
- 1 Davenport Moisture Expeller Model 1A with 10 H.P. Motor
- 1 Davenport Type 3R Monel Dewatering Press
- 1 Swenson Triple Effect Evaporator; Cast iron bodies; 4'3"x10'4"
- 1 Struthers Wells Triple Effect Evaporator; Cast Iron Bodies; 20"x10'
- 1 Zahm Evaporator or De-Alcoholizer; 15"x12'
- 1 Stainless Steel Vacuum Still; Jacketed and Agitated; 33"x60"
- 1 Glass Lined Jacketed and Side Agitated Kettle; 200 gal. open top
- 2 Glass Lined Jacketed and Agitated Vacuum Kettles; 200 gal., 300 gal.
- 1 Pfaudler 60"x24" Glass Lined Jkted Evaporating Kettle with Glass Coated Agitator . . . condition new
- 2 Aluminum Jacketed Vacuum Pans; 250 gal.; 400 gal.
- 1 Copper Jacketed Vacuum Pan; about 175 gal.
- 1 Glass Lined 3000 gal. Sectional Vacuum Still with jacketed bottom
- 1 Copper Distillation Column; 36"x23'; sectional type
- 4 Heavy Duty Vertical Copper Tanks; 4'x 9'6"; with manholes
- 75 Rubber Lined Steel Tanks, rectangular, 8' to 13' long.
- 6 Dry Ribbon Type Mixers, up to 6000 lbs. capacity.
- 2 Louisville 36" Continuous Filters
- 1 Sweetland No. 5 Filter Press.
- 1 Industrial All Iron Rotary Filter; drum 6'x3'
- 2 Copper Coating Pans, 24" and 36".
- 1 Farquahr 100 ton Extrusion Press 10"x 38½"; stroke 40"
- 1 Southwark 500 ton Curb Press; 40" bed; 18" ram
- 1 Bethlehem 2000 ton Hydraulic Press; 8 heated plates 5'6"x8'9"
- 1 Wood 7500 ton Hydraulic Press; 54" cylinder; 30" stroke; daylight 54"
- 1 Allen 4" Plastic Extruder; arr. for V Belt drive
- 5 Jacketed Autoclaves or Pressure Vessels; 4'x6'
- 1 Triangle Model SN Auger Type Powder Filler; 8 oz. to 5 lbs.
- 1 Johnson Aut. Auger Type Powder Filler; arr. for M.D.
- 2 National Packaging Two Station Auger Type Aut. Fillers
- 1 Triangle Model SPA Rotary Dial Powder Filler.
- 1 Auger and Scale Powder Filler for 5 and 10 lbs.

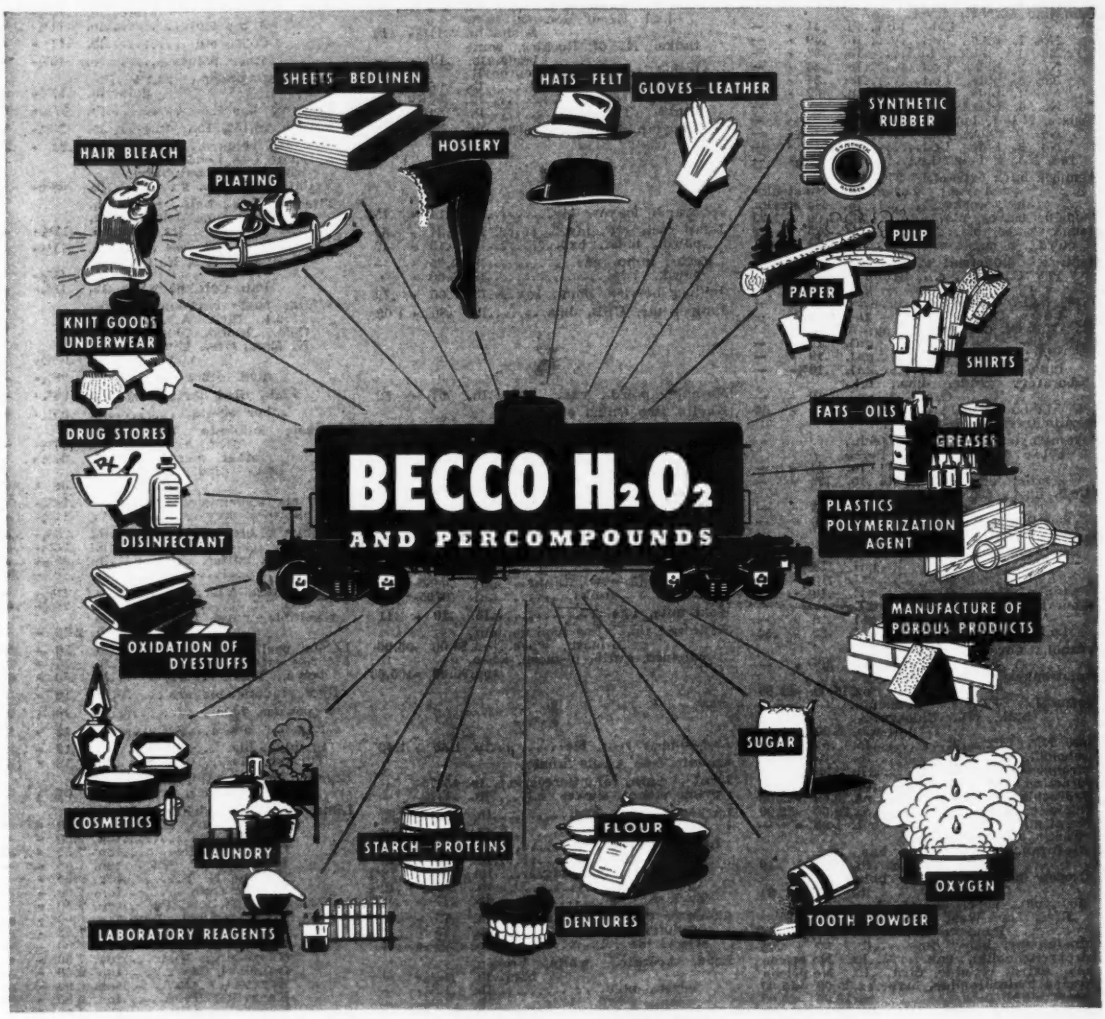
FMC FIRST MACHINERY CORP.

**157 HUDSON ST., NEW YORK 13, N. Y.**

Fusel oil, crude, dms., works.gal. .75 - —
refd., dms., dlvd.....lb. 15¼- .19¼
Fustic extract, cryst., No. 1, bbls., l.c.l..lb. .35 - —
No. 1A, bbls., l.c.l.....lb. .34 - —
No. 2, bbls., l.c.l.....lb. .33 - —
No. 3, bbls., l.c.l.....lb. .31 - —
liquid, No. 0, bbls., l.c.l....lb. .19 - —
No. 1, bbls., l.c.l.....lb. .17½- —
No. 2, bbls., l.c.l.....lb. .16¼- —
No. 3, bbls., l.c.l.....lb. .14 - —
solid, No. 1, bxs., l.c.l....lb. .20¾- —

# G

G salt, bbls. .....lb. .45 - —
Galangal root, bls.....lb. .24 - .26
Gambier, cubes, Singapore, cs..lb. No stocks
Extract, bbls.....lb. No stocks
Gammapicoline, 95%, dms., c.l., works..lb. 1.35 - —
Gasoline,[1] at refinery, ex tax, Arkansas, 73-75 octane, tanks, gal. .03¾- —
Bayonne, 74 octane, tanks, gal. .0690- —
Gulf Coast, 73-75 octane, tanks..gal. .0570- .0625
Group 3, 73-75 octane, tanks, gal. .04¾- .06¼
Pennsylvania, western, US motor, 74 octane, leaded, tanks..gal. .06¾- .07¼
natural, 26/70 octane, Group 3, tanks..gal. .02¾- —
Gelatin, silver label, ctns., dlvd. lb. .90 - .97
export, cs. .....lb. 1.00 - —
Silver label prices 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash. and Wyo.
Gelsenium root, bls.....lb. .40 - .45
Gentian root, bls.....lb. .36 - .38
grd., bbls., bxs.....lb. .38 - .40
powd., bbls., bxs.....lb. .39 - .41
Geraniol, 92-96%, ens., dms....lb. No prices
Geranyl acetate, ens.....lb. No prices
Ginger, African, No. 1, bls...lb. .15 - .15½
Calicut, Romeo-type, bgs....lb. .16½- .17
Cochin, bleached, bgs.....lb. .16 - .16½
unbleached, bgs. .....lb. .15½- .16
Jamaica, No. 1, bgs.....lb. .23 - .23½
No. 2, bgs.....lb. .18½- .19
No. 3, bgs.....lb. .16 - .16½
Rhattoon, bgs. .....lb. .15½- .16
Glaubers salt, anhyd. (see Soda sulphate).
cryst., bgs., bbls., works, 100 lbs. 1.05 - 1.45
Glue, bone, calcium type, 24 millipoise, 36 jellygrams, bgs., c.l., East of Midwest. lb. .16 - .23
30/56, bgs., c.l., same basis..lb. .15½- .22½
58/82, bgs., c.l., same basis. lb. .17 - .24
82/108, bgs., c.l., same basis. lb. .16½- .25½
Bone glue l.c.l. prices 1c. higher than c.l.
Hide,[2] 100-121 (jelly test in grams), bgs., c.l., dlvd..lb. .14 - .21½
122-149, bgs., c.l., dlvd.....lb. .15 - .22½
150-177, bgs., c.l., dlvd.....lb. .16 - .23½
178-206, bgs., c.l., dlvd.....lb. .17 - .24½
207-236, bgs., c.l., dlvd.....lb. .18 - .25½
237-266, bgs., c.l., dlvd.....lb. .19 - .26½
267-295, bgs., c.l., dlvd.....lb. .20 - .27½
296-330, bgs., c.l., dlvd.....lb. .21 - .28½
331-362, bgs., c.l., dlvd.....lb. .22 - .29½
363-394, bgs., c.l., dlvd.....lb. .23 - .30½
395-427, bgs., c.l., dlvd.....lb. .24 - .31½
428-460, bgs., c.l., dlvd.....lb. .25 - .32½
461-494, bgs., c.l., dlvd.....lb. .26 - .33½
495-529, bgs., c.l., dlvd.....lb. .27 - .34½
Hide glue l.c.l., prices 1c. higher than c.l.; bbls., ½c., over bgs.
Glycerin, crude, saponification, 85%, to refiners, tanks..lb. .12¾- —
soaplye, 80%, tanks.....lb. .11½- —
dynamite, dms., c.l.....lb. .17½- .18¼
l.c.l. .....lb. .18 - .18¾
tanks .....lb. .17¼- .18
high gravity, dms., c.l.....lb. .17½- .18¼
l.c.l. .....lb. .18 - .18¾
tanks .....lb. .17¼- .18
refined, B.P., 98%, dms., c.l..lb. .18¾- —
tanks .....lb. .18½- —
USP, 95%, dms., c.l.....lb. .18¼- —
tanks .....lb. .18 - —
yellow, distilled, dms., c.l...lb. .17¾- —
tanks .....lb. .17¾- —
Glycine, USP, bbls., tins, works. lb. 1.25 - 1.30
Glycol boriborate, dms.....lb. .22 - —
Stearate, dms.....lb. .26 - —
Gold chloride, acid-brown, bots. oz.20.75 -21.00
acid-yellow, bots.....oz.18.75 -19.00
Gold-soda chloride, photo., bots.. oz.13.00 - —
USP IX, bots.....oz.14.50 -14.75
Goldenseal root, bls.....lb. 8.75 - 9.00
powd., bxs.....lb. 9.25 - 9.50
Gold of pleasure seed, bgs....lb. No stocks
Grains of paradise, bgs.....lb. .37 - .38
Graphite,[1] dom., crystalline, 80% through 50 mesh, graphitic carbon content 65-70%, bgs., whse..lb. .04½- —
70-75%, bgs., same basis. lb. .05 - —
75-80%, bgs., same basis. lb. .05½- —
80-85%, bgs., same basis. lb. .06 - —
85-90%, bgs., same basis. lb. .07 - —
90% and up, same basis. lb. .08 - —
Grease, house,[1,7] loose .....lb. .08¼- —
White, choice, loose.....lb. .08¾- —
Wool (see Adeps lanae and Degras).
Green, brilliant,[1] thioflavin toner, molybdic, kegs., works..lb. 3.25 - —
tungstic, kgs., works.....lb. 3.75 - —
Chrome,[1] CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .23 - —
15%., bbls., same basis..lb. .25 - —
20%, bbls., same basis...lb. .25½- —
21-25%, bbls., same basis.lb. .26 - —
26-30%, bbls., same basis.lb. .26½- —
31-35%, bbls., same basis.lb. .27½- —
36-40%, bbls., same basis.lb. .29 - —
41-45%, bbls., same basis.lb. .30½- —
46-50%, bbls., same basis.lb. .33 - —
reduced color, 5%, bbls., same basis..lb. .06¾- —
9-10%, bbls., same basis.lb. .07½- —
11-13%, bbls., same basis.lb. .08 - —
14-16%, bbls., same basis.lb. .08¼- —
17-19%, bbls., same basis.lb. .08½- —
20-21%, bbls., same basis.lb. .08¾- —
22-23%, bbls., same basis.lb. .09 - —
24-25%, bbls., same basis.lb. .09¼- —
26-27%, bbls., same basis.lb. .09½- —
28-29%, bbls., same basis.lb. .10 - —
Green, chrome, reduced, 30-31%, bbls., same basis.....lb. .10½- —
30-31%, bbls., same basis.lb. .10¾- —
32-33%, bbls., same basis.lb. .12 - —
34-35%, bbls., same basis.lb. .13 - —
36-40%, bbls., same basis.lb. .14 - —
41-45%, bbls., same basis.lb. .17 - —
46-50%, bbls., same basis.lb. .17½- —
51-55%, bbls., same basis.lb. .18 - —
56-60%, bbls., same basis.lb. .18½- —
61-65%, bbls., same basis.lb. .19 - —
70%, bbls., same basis...lb. .20 - —
71-75%, bbls., same basis.lb. .21 - —
Chrome green prices are ¼c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City and Wichita, prices are equalized with Chicago.
Green, chrome oxide, pure, dms., wks..lb. .24 - —
Malachite, thioflavin toner, molybdic, bbls., works..lb. 3.00 - —
tungstic, bbls., works....lb. 3.50 - —
Phthalocyanin,[1] tetrahydroxide (hydrated chromium oxide). bbls., works..lb. .85 - —
toner, bbls., works.....lb. 4.00 - 5.00
Paris (see P).
Tungstated, brilliant, kgs...lb. 3.00 - —
emerald, kgs. .....lb. 2.60 - —
Verdigris (see V).
Green dyes (see Dyes, coaltar).
Grindelia robusta, bls.....lb. .21 - .22
Guaiac, resin, cs.....lb. .32 - .34
Wood, bls. .....lb. .35 - .36
Guaiacol, cryst., N.F., tins...lb. 1.60 - 1.65
Liquid, N.F., bots., cbys....lb. 1.60 - 1.84
Carbonate, dms. .....lb. 2.40 - 2.45
Guanidin carbonate,[1] bbls., c.l., works..lb. .57 - —
l.c.l., works.....lb. .58 - .73½
Guarana, powd., cs.....lb. 2.00 - 2.10
Gum accroides (see Gum, yacca).
Aloe (see A).
Ammoniac, tears, cs.....lb. .90 - .95
Arabic, amber, sorts, bgs...lb. .14¼- .14¾
white, sorts, 1, bgs.....lb. .28 - .29
Asafetida (see A).
Asphaltum (see A).
Benzoin, artificial, cns.....lb. 1.75 - 2.55
Camphor (see C).
Copal, Congo (former dollar-and-cent ceilings revoked Feb. 2. New ceiling prices are to be based on prices to be paid by importers in the Belgian Congo plus landed costs, as determined by a formula under the new import regulations).
East India (former dollar-and-cent ceilings on all other copals revoked May 21. New ceiling prices are to be figured on same basis of Congo)
Dammar (former dollar-and-cent ceiling on Batavia and Singapore revoked May 21. New ceiling prices are to be figured on same basis as copals).
Elemi (former dollar-and-cent ceilings on elemi revoked May 21. New ceiling prices to be figured on same basis as copals).
Ester,[1] gum-rosin type, dms.. c.l., dlvd., Ill., Ind., Ky., Mich., Mid-Atl. States, N. England States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va..lb. .1300- —
l.c.l., dlvd., Ill., etc.....lb. .1325- —
other points, same basis. lb. .1400- —
wood-rosin type (formerly designated as "ordinary"), dms., c.l., dlvd. Ill., Ind., etc..lb. .1050- .1075
Gum, euphorbium, cs.....lb. 1.50 Nom.
Galbanum, cs.....lb. 1.00 - 1.05
Gamboge, pipes, cs.....lb. No stocks
powd., bbls.....lb. No stocks
Ghatti, bgs.....lb. No stocks
Guaiac (see Guaiac resin).
Karaya, bbls., bxs., dms....lb. .21 - .30
Kauri (former dollar-and-cent ceilings revoked May 21. New ceiling prices are to be based on prices to be figured on same basis as copals).
Locust bean, powd., bbls....lb. .50 - .60
Mastic, cs.....lb. 3.50 Nom.
Myrrh, cs.....lb. .48 - .50
Olibanum, siftings, cs.....lb. .12 - .13
tears, cs.....lb. .21 - .35
Opium (see O).
Red (see Gum, yacca).
Rosin (see R).
Sandarac (former dollar-and-cent ceiling prices revoked May 21. New ceiling prices are to be figured on same basis as copals).
Scammony, cs.....lb. 1.30 - 1.35
Talha, bgs. .....lb. .10 - .11
Tragacanth, No. 1, cs.....lb. 4.25 - 4.30
No. 2, cs.....lb. 3.25 - 3.30
No. 3, cs.....lb. 2.75 - 2.80
Yacca (former dollar-and-cent ceiling prices revoked May 21. New ceiling prices to be figured on same basis as copals).
Gypsum, Keene's cement, paper bgs., c.l., Acme, Tex., frt. equald..ton.22.65 - —
Harlem River, N. Y., frt. equald..ton.28.25 - —
Medicine Lodge, Kan., frt. equald..ton.17.00 - —


## BECCO ACETYL PEROXIDE SOLUTION

Chemists of the Buffalo Electro-Chemical Company, Inc., have developed a process for making solutions of acetyl peroxide which are perfectly safe to handle. It is a 30 per cent solution of acetyl peroxide in dimethylphthalate, water white, non-explosive and immune to shock and impact.

The acetyl peroxide solution is of value as a polymerization agent. Other interesting applications include its use as a non-aqueous oxidizing agent, as a modifying agent for oils and possibly as a germicide. It has great possibilities in organic synthesis, offering a source of highly reactive free radicals.

Becco Acetyl Peroxide solution is only one of the items in our extensive line of "peroxygen" chemicals.

**OTHER BECCO PRODUCTS:**
Electrolytic Hydrogen Peroxide—100 vol. (27.5% by weight)
Electrolytic Hydrogen Peroxide CP—30 and 90% by weight

| | |
|---|---|
| Sodium Carbonate Peroxide | Magnesium Peroxide |
| Pyrophosphate Peroxide | Calcium Peroxide |
| Potassium Persulfate | Urea Peroxide |
| Ammonium Persulfate | Zinc Peroxide |

BECCO

**BUFFALO ELECTRO-CHEMICAL CO., Inc.**

Becco Sales Corporation Sales Agents

16 SAWYER AVENUE, BUFFALO 7, NEW YORK

Gypsum, Keen's cement, paper bags, New Brighton, N.Y., frt. equald..ton.30.65 - —
Southard, Okla., frt. equald..ton.17.00 - —
Sweetwater, Tex., frt. equald..ton.21.45 - —
Plaster of Paris, paper bgs., c.l., Acme, Texas, frt. equald..ton.12.50 - —
Blue Rapids, Kan., frt. equald..ton.10.50 - —
Harlem River, N. Y., frt. equald..ton.12.00 - —
Medicine Lodge, Kan., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald..ton.13.00 - —
Southard, Okla., frt. equald..ton.12.50 - —
Sweetwater, Tex., frt. equald..ton.12.60 - —
Stucco, paper bgs., c.l., Acme, Texas; Akron, N.Y., Blue Rapids, Kan.; Clarence Center, N. Y.; Fort Dodge, Ia.; Grand Rapids, Mich., Gypsum, Ohio; Harlem River, N.Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Ga.; Portsmouth, N. H.; Roton, Tex.; Southard, Okla.; Sweetwater, Tex.; frt. equald..ton. 8.00 - —
Saltville, Va., frt. equald, ton. 9.00 - —
Terra alba, paper bgs., c.l., Harlem river, N. Y., works, ton.15.90 - —
New Brighton, N. Y., same basis..ton.14.40 - —

# H

Hawthorn berries, bgs.....lb. .57 - .66
Heliotropin, cryst., cns.....lb. 2.95 - 4.00
Hellebore, white, powd., bbls..lb. .46 - .47
Helonias root, bls.....lb. 2.50 - 2.75
Hematine extract, cryst., No. 6, bbls., l.c.l..lb. .41 - —
No. 1, bbls., l.c.l.....lb. .40 - —
No. 1A, bbls., l.c.l.....lb. .37 - —
No. 2, bbls., l.c.l.....lb. .36 - —
No. 3, bbls., l.c.l.....lb. .34 - —
No. 4, bbls., l.c.l.....lb. .32 - —
No. 5, bbls., l.c.l.....lb. .30 - —
paste, No. 1, bbls., l.c.l.....lb. .17½- —
No. 2 bbls., l.c.l.....lb. .16½- —
No. 3, bbls., l.c.l.....lb. .15½- —
red, No. 4, bbls., l.c.l.....lb. .14½- —
Hemlock bark extract,[1,6] 25% tan. bbls., c.l., works..lb. No stocks
tanks, works.....lb. No stocks
Henbane leaves, bls.....lb. 1.00 - 1.25
Henna leaves, bls.....lb. .25 - .29
powd., bbls., bxs.....lb. .28 - .31
Heptane,[1] industrial grade, 50°-100° C., dms., c.l., Group 3, gal. .12½- —
l.c.l., Group 3.....gal. .19 - —
tanks, Group 3.....gal. .10½- —
77°-115° C., dms., c.l., Group 3, gal. .13 - —
l.c.l., Group 3.....gal. .19 - —
tanks, Group 3.....gal. .10½- —
laboratory grade, dms., c.l., Group 3..gal. .16 - —
l.c.l., Group 3.....gal. .20 - .55
Hexalin (see Cyclohexanone).
Hexamethylenetetramine,[1] tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C..lb. .24 - —
smaller lots, same basis..lb. .25 - —
USP, dms., 500 lbs. or more, same basis..lb. .35 - —
smaller lots, same basis..lb. .36 - —
Hexane,[1] 60°-70° C., industrial grades, dms., c.l., Group 3, gal. .13½- —
l.c.l., Group 3.....gal. .19 - —
tanks, Group 3.....gal. .10½- .11
laboratory grade, dms., c.l., Group 3..gal. .16 - —
l.c.l., Group 3.....gal. .20 - .55
Hexanol, normal, dms., l.c.l., works..lb. .25 - —
Homatropine hydrobromide, bots. oz.15.00 -25.00
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago, unit-ton. 5.00 - 5.50
Hops, NF, bls.....lb. .56 - 1.50
Horehound, bls.....lb. .10½- .12
Hydrangea root, bls.....lb. No prices
Hydrastine, alkaloid, bots....oz.20.00 -22.00
Hydrochloride, bots.....oz.20.00 -22.00
Sulphate, bots.....oz.29.00 -32.00
Hydrastinine, 10-gr. bots....bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide, dms., fib. cns., works..lb. .30 - .40
Hydrogen peroxide, USP, bbls. lb. .03¾- .04
100 vols., cbys., E. of Miss. River or West coast via Panama Canal..lb. .15½- .16½
Hydroquinone, bbls., dms.....lb. .90 - .94
Hydroxycitronellal, cns.....lb. No prices
dms., extra, ret'able, divd...lb. No prices
Hyoscine hydrobromide, bots..oz.39.00 -45.00
Hyoscyamine, bots.....oz.16.00 -20.00
Hydrobromide, bots.....oz.16.00 -20.00
Sulphate, bots.....oz.16.00 -20.00
Hypernic extract, cryst., No. 1, bbls., l.c.l..lb. .42 - —
No. 2, bbls., l.c.l.....lb. .34 - —
liquid, No. 1, bbls., l.c.l..lb. .24 - —
No. 2, bbls., l.c.l.....lb. .19 - —
solid, No. 1, bxs., l.c.l.....lb. .30 - —
Hyssop, bgs.....lb. .75 - 1.00
leaves, bgs.....lb. .75 - .78

# I

Iceland moss, bgs.....lb. .50 - .52
Ichthammol, NF, bots.....lb. 2.45 - —
Indian red (see Red, Indian).
Indigo, nat., chests.....lb. 2.14 - 2.30
synth., paste, bots.....lb. .16½- .19
powd., bbls.....lb. .74½- .85
Indol, CP, bots.....lb.19.50 -22.00
Insect flowers (see Pyrethrum).
Iodine, crude, 25-lb. jars.....lb. 1.67 - —
150-lb. kgs.....lb. 1.28¾- —
resubl., 5-lb. bots., jars.....lb. 1.75 - 1.85
Iodoform, 100-lb. dms., kgs....lb. 3.95 - 4.10
25-lb. jars or fib. dms.....lb. 4.20 - —
Ionone, ketone, bot.....lb. 6.00 - 9.50
Methyl, bot.....lb. 6.25 -12.00
Ipecac root, bgs.....lb. No prices
powd., bgs.....lb. No prices
Irish moss, ordinary, bls.....lb. .26 - .28
powd., 60-80 mesh, bbls..lb. .32 - .33
prime, bleached, bls.....lb. .30 - .35
powd., 60-80 mesh, bbls..lb. .40 - .50
Iron acetate, liquor, bbls., c.l., divd..lb. .17 - —
l.c.l., divd.....lb. .18 - —
solut., USP IX, 100-lb. cbys.lb. .17 - —
50-lb. djns.....lb. .18 - —
Chloride (ferric), anhydr., tech., dms., c.l., works.100 lbs. 4.90 - 5.25
l.c.l., works.....100 lbs. 6.50 - 6.85
cryst., tech., bbls., works, frt. alld..100 lbs. 4.00 - 6.00
USP X, lump, bbls.....lb. .07 - .08¼
Iron chloride solut., 42 Be, cbys., works, frt. alld. or equald..lb. .05½- .06
djns., same basis.....lb. .10 - —
Citrate, USP VIII, gran., dms., lb. .70 - .75
powd., cns.....lb. .84 - .87
Glycerophosphate, bbls.....lb. 3.40 - 3.52
Hypophosphite, bbls., dms...lb. 1.50 - 1.52
Iodide, bots.....lb. 3.18 - 3.22
Naphthenate, 6% Fe, 50-gal. dms..lb. .13 - —
Nitrate, red., tech., dms....lb. .03½- .04
Oxalate, gran., dms.....lb. .33 - .35
powd., cns.....lb. .52 - —
kgs.....lb. .47 - .49
Phosphate, soluble, NF, gran., cns..lb. .54 - .57
Pyrophosphate, gran., cns....lb. .59 - .63
Reduced, 90%, kgs.....lb. .65 - .75
Resinate, 7.4% Fe 100-lb. dms. lb. .17¼- —
Sulphate (ferric), anhyd., bgs., c.l., works..ton.35.00 - —
l.c.l., works.....ton.40.00 - —
(ferrous) tech. (see Copperas).
USP, cryst., bbls., dms...lb. .05½- .11
Tallate, 4% Fe, 50-gal. dms..lb. .10¼- —
Iron-ammonia citrate, brown, green, gran., pearls, dms.lb. .33 - .35
scale, dms.....lb. .49 - .52
Oxalate, bbls.....lb. .23½- —
dms., kgs.....lb. .25½- .26½
Iron-soda oxalate, bbls., dms..lb. .23½- .26½
Isobornyl acetate, cns., works.lb. .80 - .95
Thiocyanoacetate, dms., c.l., works..gal. 4.35 - —
l.c.l., works.....gal. 4.45 - 4.55
tanks, works.....gal. 4.25 - —
Isobutyl acetate, dms., works.lb. No prices
Propionate, dms., works.....lb. No prices
Isoeugenol, cns., works.....lb. 3.75 - 4.25
Isopentane, dms., works.....lb. .45 - .55
Isophorone, dms., c.l., works..lb. .21 - —
l.c.l., works.....lb. .22 - —
tanks, works.....lb. .20 - —
Isopropano[1] (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., E. of Rockies, frt. alld..lb. .11 - —
l.c.l. E. of Rockies, same basis..lb. .11½- .12
tanks, E. of Rockies, same basis..lb. .10 - —
Alcohol (see Alcohol, isopropyl).
Ether, dms., c.l., divd.....lb. .06 - —
l.c.l.....lb. .06½- —
tanks, divd.....lb. .04½- —
Isopropylamine, dms., works..lb. .25 - —

# J

Jaborandi leaves, bls.....lb. .14 - .15
Jalap root, NF, bls.....lb. .34 - .36
powd., bbls., bxs.....lb. .40 - .42
Resin, lump, cns.....lb. 5.85 - —
powd., bxs.....lb. 5.90 - —
Juniper berries, dom., bgs....lb. .35 - .70
Juniper tar, USP, dms.....lb. .80 - 1.00

# K

Kamala, powd., cns.....lb. .51 - .52
Kaolin (see China clay).
Kava kava root, bls.....lb. .28 - .30
Kerosene, at refinery: Ark., 42-44 w.w., tanks..gal. .05 - —
Bayonne, 41-43 w.w., tanks.. gal. .061 - —
California, 40-43 w.w., tanks, gal. .07 - —
Gulf ports, 41-43 w.w., tanks, gal. .04⅝- .05
Okla-Tex., 41-43 w.w., tanks, gal. .04875- —
Penn., 45 w.w., tanks....gal. .0655- .0705
47 w.w., tanks.....gal. .0705- —
Kola nuts, bgs.....lb. .10 - .11
Kyanite,[1] imp., low iron content, 10-mesh, whse..ton.85.00 -95.00
calcined, grain, 10-mesh, whse. ton.95.00 -105.00

# L

Ladyslipper root, bls.....lb. 1.35 - 1.40
Lanolin (see Adeps lanae).
Lard,[1,7] pure, ref., tierces, c.l..lb. 15475- —
prime steam, tierces, c.l.....lb. .1473- —
Larkspur seed, bgs.....lb. .80 - .82
Laurel berries, bls.....lb. .25 - .26
Leaves, Cyprus, bls.....lb. .19 - .20
Greek, bls.....lb. .19 - .20
Portuguese, fair, bls.....lb. .13½- .13⅝
good, bls.....lb. .12⅝- .12¾
Turkish, bls.....lb. .17 - .17½
Lavender flowers, medium, bls.lb. .75 - .80
ordinary, bls.....lb. .35 - .42
select, bls.....lb. .90 - .95
Lead, acetate,[1] white, broken, bbls..lb. .12¼- —
cryst., bbls.....lb. .12½- —
gran., powd., bbls.....lb. .13¼- —
Arsenate,[1,4] basic powder, 3-lb. bgs. or larger, c.l..lb. .11½- .12
l.c.l.....lb. .12 - .12½
1-lb. ctns., c.l.....lb. .18½- .23½
l.c.l.....lb. .19 - .23
standard paste, cns., c.l..lb. .05¾- .06
l.c.l.....lb. .06 - .06¼
powder, 3-lb. bgs. or larger, c.l..lb. .11 - .11½
1-lb. bgs., c.l.....lb. .16 - .20
l.c.l.....lb. .16½- .20½
1-lb. ctns., c.l.....lb. .18 - .23
l.c.l.....lb. .18½- .23½
¼-lb. ctns., c.l.....lb. .21 - .25
l.c.l.....lb. .21½- .25½

Inside column is maximum OPA prices for manufacturers or distributors; outside column for all other purchasers. Lead arsenate prices are works or whse. basis, frt. alld. to dest. in lots of 96 lbs. or over; no frt. or truck allowance for works or whse. pick-ups.

Blue, basic sulphate, bbls., c.l., divd. E..lb. .07½- —
divd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo..lb. .07⅝- —
l.c.l., divd. E.....lb. .07⅝- —
divd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo..lb. .08 - —
Carbonate (see Lead, white).
Chloride, fib. dms.....lb. .49 - —
Iodide, NF V. bots.....lb. 2.80 - —
jars.....lb. 2.69 - —
Linoleate, pale, precip., bbls.lb. .22¾- —
Metal,[1,8] (see Protective Coatings Materials market).
Metallic paste, dms., works..lb. No stocks
Naphthenate, 24%-30%, Pb..lb. .14½- .17½
Nitrate, bbls.....lb. .12¼- —
Oleate, bbls.....lb. .17¾- —
Peroxide, powd., tech., bbls.lb. .23 - .28
Lead, red, 95% $Pb_3O_4$ or less bbls., c.l. (20 tons), divd. Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash....lb. .09¼- —
other points.....lb. .09 - —
l.c.l., 5 tons, divd. Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. Cascade Mts. in Ore. and Wash..lb. .09¾- —
Ariz., Idaho, Nev., Utah, and E. of Cascade Mts. in Ore. and Wash..lb. .10¼- —
Colo., Mont., N. Mex., Wyo..lb. .10¼- —
other points.....lb. .10¾- —
in oil, kgs.....lb. .14 - —
97%, $Pb_3O_4$, bbls., c.l., divd. Ala., etc..lb. .09¼- —
other points.....lb. .09¾- —
l.c.l., 5 tons, divd. Ala., etc..lb. .10 - —
Ariz., etc.....lb. .10½- —
Colo., etc.....lb. .10½- —
other points.....lb. .09¾- —
smaller lots, divd. Ala., lb. .10¾- —
Ariz., etc.....lb. .11 - —
Colo., etc.....lb. .10¾- —
other points.....lb. .10¼- —
96%, $Pb_3O_4$, bbls., c.l., (20 tons), divd., Ala., etc. lb. .09¾- —
other points.....lb. .09½- —
l.c.l., 5 tons, divd. Ala., etc..lb. .10¼- —
Ariz., etc.....lb. .10¾- —
Colo., etc.....lb. .10½- —
other points.....lb. .10 - —
smaller lots, divd. Ala., etc..lb. .10¼- —
Ariz., etc.....lb. .11¼- —
Colo., etc.....lb. .11 - —
other points.....lb. .10½- —
Resinate, precip., 28.8% Pb., dms..lb. .17½- —
Silicate, bgs.....lb. .0730- .0760
Soyate, 26.15% Pb., dms.....lb. .22¼- —
Stearate, bbls.....lb. .31 - .38
Sulphate (see Lead, blue; Lead, white, basic sulphate).
Tallate, 10% Pb., dms.....lb. .08¼- —
Titanate, bgs., bbls., c.l., l.c.l., 5 tons, one delivery, E., frt. alld..lb. .11½- —
Pac. Cst., ex whse..lb. .11½- —
smaller lots, E. frt. alld. lb. .11½- —
Pac. Cst., ex whse..lb. .11¾- —
White, basic carbonate, bbls., c.l., divd. Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Utah, Wash., and Wyo..lb. .08½- —
divd. other points...lb. .08¾- —
l.c.l., divd. Ariz., etc...lb. .08¾- —
other points.....lb. .08½- —
basic sulphate, bbls., c.l., divd. Ariz., etc..lb. .07½- —
other points.....lb. .07¾- —
l.c.l., divd. Ariz., etc. lb. .08 - —
in oil, consumers, kgs.....lb. .13¾- —
painters, kgs.....lb. .12¾- —
Lecithin, edible, dms., c.l.....lb. .25¼- —
l.c.l.....lb. .26½- .45
in cocoa butter, dms., c.l..lb. .39¼- —
l.c.l.....lb. .40¾- .50
tech., dms., c.l.....lb. .23¼- —
l.c.l.....lb. .26½- .45
vegetable, pure, bots, 100 lbs. lb. 2.75 - —
Lemon peel, bls.....lb. .30 - .35
Licorice extract, mass, cns....lb. .25 - .72
powd., bbls.....lb. .60 - .68
Root, Indian, bls.....lb. .12 - .14
powder, bbls.....lb. .18 - .20
Russian, bls.....lb. .12 - .18
Spanish, bls.....lb. .12 - .18
Turkish, bls.....lb. .12 - .18
Lignin extract, tanning grade, bgs., c.l., works..lb. .04 - —
Lime, chemical, quicklime, lump, pebble, Adams, Mass..ton. 6.00 - —
Annville, Pa.....ton. 7.50 - —
Bellefonte, Pa.....ton. 7.50 - —
Berkeley, W. Va....ton. 7.50 - —
Buffalo, N. Y.....ton. 9.25 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa....ton. 6.50 - —
Crab Orchard, Tenn..ton. 6.90 - —
Eagle Mountain, Va..ton. 7.65 - —
Farnams, Mass.....ton. 8.00 - —
Gibsonburg, Ohio....ton. 7.50 - —
Hannibal, Mo.....ton. 6.50 - —
Keystone, Ala.....ton. 6.90 - —
Knoxville, Tenn.....ton. 6.90 - —
Limedale, Ark.....ton. 7.00 - —
Longview, Ala.....ton. 6.90 - —
Manistique, Mich....ton. 8.00 - —
Marblehead, Ohio....ton. 7.50 - —
Martinsburg, W. Va..ton. 7.50 - —
Menominee, Mich....ton. 8.00 - —
Mitchell, Ind.....ton. 6.50 - —
Newala, Ala.....ton. 6.90 - —
Ripplemead, Va.....ton. 7.65 - —
Riverton, Va.....ton. 7.65 - —
Rockland, Maine.....ton. 8.00 - —
Scioto, Ohio.....ton. 6.50 - —
Sherwood, Texas....ton. 6.90 - —
Sherwood, Wisc.....ton. 6.50 - —
Springfield, Mo.....ton. 7.00 - —
Woodville, Ohio.....ton. 7.50 - —
York, Pa.....ton. 7.50 - —
Hydrated, Adams, Mass....ton. 9.00 - —
Annville, Pa.....ton. 9.00 - —
Bellefonte, Pa.....ton. 9.00 - —
Berkeley, W. Va.....ton. 9.00 - —
Buffalo, N. Y.....ton. 9.50 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa....ton.10.00 - —
Crab Orchard, Tenn...ton. 9.65 - —
Eagle Mountain, Va...ton. 9.15 - —
Farnams, Mass.....ton. 9.00 - —
Gibsonburg, Ohio.....ton. 8.50 - —
Hannibal, Mo.....ton. 8.50 - —
Keystone, Ala.....ton.10.65 - —
Knoxville, Tenn.....ton. 9.65 - —
LeRoy, Minn.....ton.10.00 - —
Limedale, Ark.....ton. 9.00 - —
Limedale, Ark.....ton. 9.00 - —
Longview, Ala.....ton. 9.65 - —
Manistique, Mich....ton. 9.50 - —
Marblehead, Ohio....ton. 9.50 - —
Martinsburg, W. Va..ton. 9.00 - —
Menominee, Mich....ton. —
Mitchell, Ind.....ton. 9.00 - —
Newala, Ala.....ton. 9.65 - —
Petoskey, Mich.....ton. 9.00 - —
Port Island, Mich....ton. 9.00 - —
Rapid City, S. Dak...ton.12.00 - —
Ripplemead, Va.....ton. 9.15 - —
Rockland, Maine.....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Lime, hydrated, Sherwood, Tenn. ton.10.65 - —
Sherwood, Wisc.....ton.10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 9.00 - —
Spray, paper bgs., Adams, Mass..ton.10.00 - —
Annville, Pa.....ton.10.00 - —
Bellefonte, Pa.....ton.10.00 - —
Carey, Ohio.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio.....ton.10.00 - —
Marblehead, Ohio.....ton.10.00 - —
Rockland, Maine.....ton.10.00 - —
Sciota, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.10.00 - —
York, Pa.....ton.10.00 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen[9] 20.5% N. (see Ammonia nitrate-lime-stone).
Linalool, cns.....lb. 7.75 - 7.80
Linalyl acetate, ex bois de rose, bots..lb. 8.50 - —
ex lignaloe wood, bots.....lb. 7.75 - 8.40
ex petitgrain, bots.....lb. 3.90 - 4.10
Linden flowers with leaves, bls. lb. .62 - .65
Linseed meal,[1,7] 34% bulk, c.l. ton.59.00 - —
32% bulk, c.l.....ton.57.00 - —
Litharge, com'l, powd. ,bbls., c.l. dlvd. Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo. and E. of Cascade Mts. in Ore. and Wash..lb. .08¼- —
other points.....lb. .08 - —
l.c.l., 5 tons, divd. Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. of Cascade Mts. in Ore. and Wash. lb. .08¾- —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash..lb. .09¼- —
Colo., Mont., N. Mex., Wyo..lb. .09 - —
other points.....lb. .08½- —
smaller lots, divd. Ala., etc..lb. .09¼- —
Ariz., etc.....lb. .09¾- —
Colo., etc.....lb. .09½- —
other points.....lb. .09 - —
Lithium bromide, bbls., 100-lb. lots, works, frt. equald.lb. 1.90 - —
smaller lots, works.....lb. 1.92 - 1.95
Carbonate, NF, bbls., kgs...lb. 1.25 - 1.30
Chloride, jars.....lb. 1.65 - 1.70
Citrate, bbls., dms., kgs....lb. 1.40 - 1.41
Fluoride, bbls.....lb. 2.45 - 2.60
Hydroxide, jars.....lb. 1.25 - 1.46
Iodide, bots.....lb. 5.30 - —
jars.....lb. 5.05 - —
Stearate, fib. dms., works....lb. .80 - —
Lithopone,[1] ordinary, bgs., c.l. (20 tons)..lb. .04¼- —
l.c.l.....lb. .04½- —
bbls., c.l.....lb. .04¼- —
l.c.l.....lb. .04¾- —
titanated (high-strength), bgs., c.l..lb. .0560- —
smaller lots.....lb. .0565- —
bbls., c.l.....lb. .0585- —
smaller lots.....lb. .0610- —
Lithopone, c.l., divd. Pac. Cst., ½c. higher; l.c.l., ex whse. Pac. Cst., ½c. higher.
Liverwort leaves, bls.....lb. .65 - .70
Lobelia herb, bls.....lb. 1.10 - 1.15
Lobeline sulphate, bots., wks..oz.25.50 -33.00
Logwood extract, crystals, No. 1, bbls., l.c.l..lb. .34 - —
No. 2, bbls., l.c.l.....lb. .32 - —
liquid, No. 1, bbls., c.l....lb. .17 - —
No. 2, bbls., l.c.l.....lb. .16 - —
No. 3, bbls., l.c.l.....lb. .15½- —
No. 4, bbls., l.c.l.....lb. .15 - —
solid, No. 1, bgs., l.c.l....lb. .28 - —
No. 2, bxs., l.c.l.....lb. .26 - —
bbls., c.l., Zone 1.....lb. .09½- —
No. 4, bxs., l.c.l.....lb. .23 - —
No. 3, bgs., l.c.l.....lb. .23¼- —
No. 5, bxs., l.c.l.....lb. .21½- —
No. 6, bxs., l.c.l.....lb. .39½- .44½
Lovage root, American (ligusticum actae folium), bls..lb. 1.20 - 1.50
Lupulin, NF, tin.....lb.12.75 -13.00
Lycopodium, USP, cs.....lb. 1.50 - 1.75

# M

Mace,[7] Amboyna, cs.....lb. .77 Nom.
Banda, cs.....lb. .96 Nom.
West Indian, bgs.....lb. .62 Nom.
No. 1, bgs.....lb. .60 Nom.
broken, bgs.....lb. .55 Nom.
Madder, Dutch, bbls.....lb. .24 - .30
Magnesia arsenate,[1] dms.....lb. .153 - .19
Calcined, tech., USP, bbls., works..lb. .26 - —
Carbonate, tech., bgs., c.l., l.c.l., Zone 1..lb. .07½- —
bbls., c.l., Zone 1.....lb. .07½- —
l.c.l., Zone 1.....lb. .08½- —
kgs., c.l., Zone 1.....lb. .08¾- —
l.c.l., Zone 1.....lb. .09¾- —
USP, bgs., c.l., Zone 1....lb. .08 - —
l.c.l., Zone 1.....lb. .09 - —
bbls., c.l., Zone 1.....lb. .08½- —
l.c.l., Zone 1.....lb. .09½- —
kgs., c.l., Zone 1.....lb. .09¾- —
l.c.l., Zone 1.....lb. .10¾- —
Magnesia carbonate prices, basis Phillipsburg, N. J., and Plymouth Meeting, Valley Forge, Pa.; l.c.l. prices ¼c. lower, Zone 2, store delivery; store door delivery, both zones. Zone 1—Conn., Del., D. C., Md., Mass., N. J., N. Y., Pa., and R. I.; Zone 2, remainder of U. S.
Chloride, anhyd., bbls., divd.lb. .12¾- —
flake, bbls., c.l., works...ton.32.00 - —
l.c.l., works.....ton.39.00 -42.00
Fluoride, bbls.....lb. .30 - .31
Hydroxide, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, cns.....lb. 1.45 - —
Laurate, bbls.....lb. .23 - .25
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works..lb. 1.00 - 1.85
Phosphate, tribasic, USP, bbls. lb. .60 - —
Silicate (see Talc).
Silicofluoride, bbls.....lb. .08 - .09
Stearate, ctns.....lb. .31 - .39
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000-lb. contracts..lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, cal., powd., bgs., c.l., mines, Calif..ton.58.75 - —
dead-burnt,[1] bulk, c.l., Chewelah, Wash..ton.22.00 -32.00
Maleic anhydride, dms., c.l....lb. .25 - —
l.c.l.....lb. .26 - —
Malva flowers, black, bls.....lb. No stocks
blue, bls.....lb. 1.80 - 1.90
Leaves, bls.....lb. .40 - .41
Manaca root, bls.....lb. .30 - .31
Mandrake root, bls.....lb. .32 - .34
Manganese acetate, dms.....lb. .25½- —
Arsenate,[4] bgs.....lb. .12 - .13½
Borate, tech., bbls.....lb. .16 - .19
Carbonate, bbls.....lb. .19 - —
Chloride, anhyd., bbls., wks..lb. .14 - .16

OPD—5-27-1946 21

# Expedition to Etna

Lemery, in 1705, was the first to demonstrate that ammonium chloride (sal ammoniac) exists among the products derived from volcanoes, where he found it admixed with sodium chloride.

At Etna, Vesuvius, Stromboli, Hecla, and the Sandwich Islands, ammonium chloride occurs as a sublimate mixed with other volatile matters in cavities near the volcano, and in crevices in volcanic lava. It also has been reported in the vicinity of ignited coal seams.

Ammonium chloride is found in guano from the Chincha Islands, in natural salt, in the mother liquor of some brine springs, and in carnallite from Stassfurt.

Since 1867, Mallinckrodt has specialized in the production of ammonium salts for use in medicine and industry. **Over eighty different salts and forms are available — including Acetate, Bromide, Carbonate, Chloride, Iodide, Sulfate —** and the Mallinckrodt trade mark is your assurance that these chemicals will meet your most exacting requirements.


**MALLINCKRODT** FINE CHEMICALS Mallinckrodt SINCE 1867 **CHEMICAL WORKS**

*79 Years of Service to Chemical Users*

Mallinckrodt Street, St. Louis 7, Mo. • 72 Gold Street, New York 8, N.Y.

CHICAGO • PHILADELPHIA • LOS ANGELES • MONTREAL

UNIFORM • DEPENDABLE • PURITY

Manganese dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
Caucasian, 85-90%, bbls., c.l., works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
burlap bgs., c.l., works, ton.71.75 - —
l.c.l., works.....tou.74.75 -79.75
paper bgs., c.l., works.ton.70.00 - —
l.c.l., works.....ton.73.00 - —
Glycerophosphate, fib. dms., 1,000-lb. lots..lb. 3.05 - —
100-lb. lots.....lb. 3.15 - —
cns., 25 lbs.....lb. 3.27 - —
Hydrate, bbls., dlvd.....lb. .26 - —
Iodide, bots.....lb. 5.70 - —
jars.....lb. 5.55 - —
Linoleate, liquid, 4%, dms..lb. .20 - —
solid, precip., 8.2%, bbls..lb. .22 - —
Naphthenate, 6% Mn, dms..gal. .16 - —
Resinate, fused, 3½%, bbls..lb. .09 - .10½
precip., dms.....lb. .14½- .15½
Soyate, 8.2% Mn, dms.....lb. .23 - —
Sulphate, anhyd., dms., works. lb. No stocks
feed grade, 77-80%, bgs....lb. .04 - .05
fertiliser grade, 65%, bgs., c.l., dlvd. East..ton.59.54 - —
l.c.l., same basis, or Balto. or Cincinnati... ton.68.50 - —
industrial grade, 80%, bgs..lb. .06 - .06½
Tallate, 4%, Mn, dms.....lb. .09 - —
Mangrove bark,[1,2] E. Africa, 38% tannin, c.l., ex dock, U. S. ports..ton.60.00 -61.00
Manna, flake, large, cs.....lb. No stocks
small, cs.....lb. No stocks
Mannitol,[2] com'l, bbls., works.lb. .35 - .40
reagent, cs. or multiples, works..lb. .85 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
California, French type, new crop, bls., Pacific Coast..lb. .34 - .35
Chilean, bls.....lb. .11 - .11½
Matico leaves, bls. .....lb. .22 - .29
Menadione, USP, bots., works, gram. .10 - —
Menthol, natural, USP, cns...lb. 5.75 - 6.00
synthetic, tech, cns.....lb. No prices
USP, laevo, cns.....lb. No prices
racemic, cns. .....lb. 5.10 - 5.25
Menthyl salicylate, tins.....lb. 3.00 - 3.10
Mercurial ointment, USP, mild, 10%, tubs..lb. .70 - .72
30%, pails.....lb. 1.30 - —
50%, pails.....lb. 1.88 - 1.90
Mercury bichromate (see Corrosive sublimate).
Bisulphate, dms.....lb. 2.59 - 2.61
Chloride (see Calomel).
Cyanide, cryst., powd.....lb. 3.86 - —
Iodide, red, NF, dms., kgs..lb. 4.30 - —
yellow, fib. dms., kgs.....lb. 4.38 - —
Nitrate ointment (see Citrine ointment).
Oxide, red, NF (see Red precipitate).
yellow, USP, fib. dms.....lb. 2.94 - 2.96
tech. (see Yellow, mercury oxide).
Mercury and chalk, dms.....lb. 1.66 - 1.76
Mesityl oxide, dms., c.l., dlvd..lb. .11½- —
l.c.l., dlvd.....lb. .12 - —
tanks, dlvd.....lb. .10½- —
Metal leaf, composition, 5½x5½ in..pkg. 3.00 - —
Gold X+, deep, 23, 3⅛x3⅛ in., pkg.15.00 - —
Silver, 3⅛x3⅛ in.....pkg. 2.00 - —
Metanitroparatoluidin, bbls....lb. 1.05 - 1.10
Metaphenylenediamine, kgs....lb. .65 - —
Metatoluylenediamine, kgs.....lb. .70 - —
Methanol,[1] natural, all grades, dms., c.l., E. of Miss. R. gal. .63 - —
l.c.l., same basis.....gal. .73 - —
tanks, same basis.....gal. .60 - —
Inside prices on natural methanol W. of Miss. R., 3c. higher.
synthetic, dms., c.l., Zone 1, frt. lld..gal. .31 - —
2, frt. alld. or dlvd....gal. .34 - —
3, frt. alld.....gal. .38 - —
4, frt. alld.....gal. .38 - —
l.c.l., Zone 1, frt. alld. or dlvd..gal. .36 - —
2, frt. alld.....gal. .43 - —
3, dlvd. S. F. and L. A. gal. .41 - —
4, frt. alld. or dlvd...gal. .51½- —
tanks, Zone 1, frt. alld..gal. .24 - —
2, frt. alld.....gal. .27 - —
3, frt. alld.....gal. .29 - —
4, frt. alld.....gal. .29 - —
Synthetic methanol zones are:—Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah, and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.
Methyl abietate, non-ret. dms., c.l., dlvd..lb. .08½- —
10 dms., dlvd.....lb. .09½- —
1-9 dms., dlvd.....lb. .10½- —
hydrogenated, non-ret. dms., c.l., dlvd..lb. .12 - .15½
10 dms.....lb. .13½- .16½
1-9 dms.....lb. .14½- .17½
Methyl acetate, CP, 97-99%, dms., c.l., E. of Miss.....lb. .10½- .12
W. of Miss.....lb. .11½- .12
l.c.l., E. of Miss.....lb. .11 - .14
W. of Miss.....lb. .12 - .13½
tanks, E. of Miss.....lb. .09½- —
W. of Miss.....lb. .10½- —
tech., dms., c.l., E. of Miss. lb. .07 - .09
W. of Miss.....lb. .08 - —
l.c.l., E. of Miss.....lb. .07½- .11
W. of Miss.....lb. .08½- .10½
tanks, E. of Miss.....lb. .06 - —
W. of Miss.....lb. .07 - —
Acetoacetate, dms., c.l., works, frt. alld..lb. .30½- —
Acetone, natural, Group A, dms. incl. E. of Miss., frt. alld. gal. .66 - —
l.c.l., same basis....gal. .76 - —
tanks, same basis.....gal. .60 - —
Natural methyl acetone prices W. of Miss. R., 3c. per gal. higher.
Group B, dms., c.l., Zone 1, frt. alld..gal. .63 - —
Zone 2, same basis.gal. .65 - —
Zone 3, same basis.gal. .67 - —
Zone 4, same basis.gal. .69 - —
l.c.l., Zone 1, same basis. gal. .66 - —
Zone 2, same basis.gal. .83 - —
Zone 3, same basis.gal. .70 - —
Zone 4, same basis.gal. .83 - —
tanks, Zone 1, same basis. gal. .60 - —
Zone 2, same basis.gal. .62 - —
Zone 3, same basis.gal. .64 - —
Zone 4, same basis.gal. .64½- —
Natural methyl acetone zones are:—Zone 1, Conn., Del., D. of C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D., Tex., Wyo. Zone 3—Los A., San Fran., Seattle, Wash.; Portland, Ore. Zone 4—Ariz., Cal., Idaho, Mont., N. Mex., Nev., Ore., Utah, Wash.
synthetic, dms., c.l., Zone 1. gal. .51 - —
Zone 2.....gal. .52 - —
Zone 3.....gal. .53½- —
Zone 4.....gal. .54½- —
dms., l.c.l., Zone 1.....gal. .54½- —
Zone 2.....gal. .57 - —
Zone 3.....gal. .58 - —
Zone 4.....gal. .59½- —
tanks, Zone 1.....gal. .43 - —
Zone 2.....gal. .44½- —
Zone 3.....gal. .45½- —
Zone 4.....gal. .45½- —
Synthetic methyl acetone zones are:—Zone 1—Conn., Del., D. C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Penn., R. I., S. C., Tenn., Vt., Va., W. Va., Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. D., Tex., Wyo. Zone 3—Los Angeles, Cal.; San Francisco, Cal.; also (c.l. only) Portland, Ore. and Seattle, Wash. Zone 4—Ariz., Cal., N. Mex., Mont., Nev., Idaho, Ore., Utah, Wash.
Alcohol (see Methanol).
Methyl anthranilate, dms.....lb. 1.80 - 1.85
bots., cns.....lb. 2.20 - 2.35
Benzoate, cns.....lb. .48 - .51
Benzoate, cns.....lb. .45 - .47
cyls. .....lb. .65 - .75
Chloride, refrigeration, cyls., 500 lbs. and up, machine mfrs. and jobbers, cylinders..lb. .32 - —
service men and consumers, cyl..lb. .36 - —
60 to 499 lbs., mach. mfrs. and jobbers..lb. .33 - —
service men and consumers, cyl..lb. .36 - —
tanks, multi-unit, machine mfrs. and jobbers..lb. .31 - —
service men and consumers..lb. .36 - .40
Methyl chloride quotations are spot or contract, ship. point; prices above are in 60, 90 and 180-lb. cylinders; 20-lb. cylinders, 10c. per pound higher.
Cinnamate, cns.....lb. 2.50 - 3.50
Formate, dms.....lb. .89 - —
Iodide, bots.....lb. 4.00 - 4.15
Lactate, dms., c.l., dlvd.....lb. No stocks
Oleate, dms., c.l.....lb. .35 - —
Salicylate,[1] dms., 500 lbs....lb. .35 - —
25-50 lbs.....lb. .37 - .38
Methylamyl ketone, cns., dms., works..lb. No stocks
Methylcellulose, special, vis. (4,000 cps.) fib. ctns., 2,000 lbs. or more, frt. alld..lb. .60 - —
smaller lots, frt. alld....lb. .65 - .70
standard vis. (15-1,500 cps.), fib. ctns., 2,000 lbs. or more, frt. alld..lb. .53 - —
smaller lots, frt. alld....lb. .58 - .63
Methylcyclohexane, 98-100%, dms., works..lb. .16 - —
Methylcyclohexanol, 98-100%, dms., works..lb. .23 - —
Methylcyclohexanone, 98-100%, dms., works..lb. No stocks
Methylene blue, USP, kgs., works. lb. 2.00 - 2.15
cns., works.....lb. 2.35 - —
Chloride, refrig., dms., wks..lb. .18 - .26
solvent, dms., works.....lb. .12 - .15
Methyleneanilin, lbs., ton lots, min. frt. alld.....lb. .36 - —
smaller lots, same basis....lb. .37 - —
Methylethyl ketone, dms., dlvd. lb. .09 - —
l.c.l., dlvd.....lb. .09½- —
tanks, dlvd.....lb. .08 - —
Methylhexyl ketone, dms., tech., works..lb. .60 - —
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Methylisobutyl ketone, dms., c.l., dlvd..lb. .11½- —
l.c.l., dlvd.....lb. .12 - —
tanks, dlvd.....lb. .10½- —
Methylnaphthyl ketone, cns...lb. 3.25 - 3.75
Methylpentanediol, dms., c.l., works..lb. .16 - —
l.c.l., works.....lb. .16½- —
1 and 5-gal. cont., works..lb. .20½- .23½
tanks, works.....lb. .15 - —
Mica, dry-grd., paint, plastic, 150 mesh, bgs., c.l., works.ton.47.50 - —
l.c.l., works.....ton.51.00 - —
roofing, 20 mesh, bgs., c.l., works..ton.32.50 -33.00
l.c.l., works.....ton.38.00 -40.00
30-31 mesh, bgs., c.l., works, ton.32.50 -35.00
l.c.l., works.....ton.37.50 -40.00
40-45 mesh, bgs., c.l., works, ton.32.50 -35.00
l.c.l., works.....ton.37.50 -40.00
60 mesh, bgs., c.l., works. ton.40.00 -42.50
l.c.l., works.....ton.44.00 -45.50
graphitic, bulk, Pa., mines. ton.30.00 - —


# *Natural* LYSINE

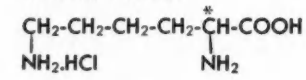
*l*(+) LYSINE MONOHYDROCHLORIDE—I.C.

# *Now Available*

in quantities sufficient to enable extensive research relating to the use of this

## ESSENTIAL AMINO ACID

**DESCRIPTION**



$(C_6H_{14}O_2N_2.HCl)$

Molecular Weight: 182.65

Rotation: $[a]\ ^{25}_{D}$ (in normal HCl) + 20° to + 21°

Nitrogen: 15.1%—15.5% (Theory 15.34%)

Ash: Less than 0.2%

Our scientific staff welcomes discussion of your lysine problems, and will be pleased to cooperate in their solution.

Interchemical Corporation

*Biochemical Division*

1120 COMMERCE AVENUE · UNION, NEW JERSEY

TEL.—UNIONVILLE 2-5200

Mica, wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. .04½- —
l.c.l., ex whse., or frt. alld. E..lb. .05 - —
extra fine, bgs., c.l., works, frt. alld. E..lb. .04¾- —
l.c.l., ex whse. or frt. alld. E..lb. .05¼- —
paint or lacq., bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E..lb. .06 - —
rubber, bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E..lb. .05¾- —
wallpaper, bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E..lb. .06 - —
white, extra fine, bgs., c.l., works, frt. alld. E..lb. .06½- —
l.c.l., ex whse. or frt. alld. E..lb. .07 - —

Mica, wet-grd., W. of Miss. R., ½c. higher; W. of Rockies, ¾c. higher.

Milk powder,[1,7] skimmed, roller, bulk, c.l..lb. .14¼- —
spray, bulk, c.l.....lb. .13¾- —
whole, roller, bbls., c.l.....lb. .29 - —
spray, bbls., c.l.....lb. .30 - —
Milk sugar,[1] bbls., c.l., works.lb. .26 - —
l.c.l., works.....lb. .26¾- .27¼
Mineral spirits (see Petroleum, mineral spirits).
Molasses,[1,6] blackstrap, tanks, works, Area 1..gal. .18 - —
Area 2.....gal. .18½- —
Area 3.....ton.26.00 - —
Area 4.....ton.29.00 - —
tanks, Area 5.....ton.34.60 - —

Area 1, Fla., Ga., La., Tex.; Area 2, Mass., Md., N. J., N. Y.; Area 3, Calif.; Area 4, Colo., Idaho, Kan., Mont., Neb. (excepting Grand Island), S. D., Utah, Ore., Wash., Wyo.; Area 5, Ia., Md., Mich., Minn., Grand Island, Neb., Ohio, Wis.

Molybdate orange (see Orange, molybdate).
Molybdenum metal,[1,6] kgs., 90%, powd..lb. 2.60 - 3.00
Trioxide,[1,6] pure, kgs., works, basis Mo. content..lb. .95 - —
technical, kgs., works, basis Mo. content. lb. .80 - —
Monoamylamine, dms., c.l., works, basis 100%..lb. .61 - —
l.c.l., works, basis 100%..lb. .64 - —
Monochlorobenzene, dms., c.l., works..lb. .06½- —
l.c.l., works.....lb. .07 - .09
Monoethanolamine, dms., c.l., frt. alld. E..lb. .24 - —
l.c.l., same basis.....lb. .25 - —
tanks, same basis.....lb. .23 - —
Monoethylamine, dms., c.l., works, basis 100%..lb. .17 - —
l.c.l., works, basis 100%...lb. .18 - —
tanks, 100% basis, works....lb. .15 - —
Monomethylamine, dms.....lb. .65 - —
Monomethylpara-aminophenol sulphate, dms..lb. 2.40 - 2.90
Monosodium phosphate (see Soda phosphate, monobasic).
Morphine, bots., 5 ozs.....oz.11.10 - —
cns., 25 ozs.....oz.10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Hydrobromine, 5 ozs.....oz. 8.95 - —
cns., 25 ozs.....oz. 8.75 - —
Hydrochloride, bots., 5 ozs..oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Sulphate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Morpholine, dms., l.c.l., works, lb. .67 - —
Mullein leaves, cns.....lb. .12 - .13
smaller containers, works...lb. .75 - —
Musk, nat., Tonquin, grains, bots., oz.55.00 -60.00
synthetic, ambrette, cns., 100 lbs., or more..lb. 4.00 - 9.10
25 lbs.....lb. 4.10 - 9.20
5 lbs.....lb. 4.25 - 9.45
ketone, cns., 100 lbs. or more..lb. 4.15 - 9.25
25 lbs.....lb. 4.25 - 9.35
5 lbs.....lb. 4.40 - 9.70
xylol, dms.....lb. 1.40 - 2.00
25 lbs.....lb. 1.50 - 2.60
5 lbs.....lb. 1.65 - 2.90
Muskroot, bls.....lb. 2.25 - 2.30
Mustard seed, Calif., brown, bgs. lb. .14½- .15
yellow, bgs.....lb. .21 Nom.
Danish, yellow, bgs.....lb. .25¼- .25¾
Montana, brown, bgs.....lb. .11 - .11½
oriental, bgs.....lb. .11½- .12
yellow, bgs.....lb. .26 - .26½
Swedish, bgs., futures.....lb. .35 - .35½
Washington, yellow, bgs...lb. .26 Nom.
Myrobalans,[1] whole J1, U. S. ports, ex dock..ton.54.00 -55.00
J2, same basis.....ton.49.00 -50.00

## N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).
Naphthalene, crude, dom., 74°, bgs., c.l., frt. equald..lb. .03 - .03½
bbls., c.l., same basis..lb. .031 - .036
tanks, same basis.....lb. .0275- .0325
crude, dma., 78°, bgs., c.l., same basis..lb. .0325- .0375
bbls., c.l., same basis...lb. .0325- .0375
tanks, same basis.....lb. .03 - .0350
refined, balls, flakes, bbls., wholesalers and jobbers, works..lb. .06 - —
50-lb. cs., same basis....lb. .06¼- —
1-lb. pkgs., same basis...lb. .06¾- —
Neocinchophen, USP, dms., works, lb. 7.00 - 7.10
Nepheline syenite,[1] glass grade, 24 mesh, bulk, Rochester, N. Y..ton.12.00 - —
pottery grade, 200 mesh, bulk, Rochester, N. Y..ton.15.50 - —
Nephelinesyenite in bgs. is $2 per ton higher than bulk.
Nerolin, crys., cns.....lb. 1.70 - 1.80
Niacin (see Acid, nicotinic).
Nickel, carbonate, bbls.....lb. .36 - .36¼
Chloride, bbls.....lb. .18 - .20
Cyanide, bots., dms.....lb. No stocks
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .13 - .13½
Nicotine sulphate, 40%, dms., 50 lbs. to dealers, frt. allowed over 96 lbs..lb. .8660- —
tins, 10 lbs.....lb. 1.015 - —
Nicotinamide, USP, dms., works, kilo.11.00 -11.30
Nikethamide, bots., cbys.....lb. 9.00 -12.00
Nitercake, bulk, works.....ton.16.00 - —
Nitrobenzene, dbl. dist., dms., c.l., lb. .08 - —
l.c.l. .....lb. .09 - —
tanks .....lb. .07 - —
Nitrocellulose, alcohol-soluble, ½ sec., 30-35 cps., bbls., works, dry weight..lb. .28 - —
5-6, 40-60 cps., same basis, lb. .27 - —
Nitrocellulose ester-soluble, ¼, ½ sec., 30-35 cps., bbls., works, dry weight....lb. .26 - —
5-6, 15-20 cps. and higher, bbls., works, dry weight, lb. .25 - —

Nitrocellulose:—Denatured alcohol used in manufacture is charged extra. Barrels extra, but returnable.

Nitroethane, dms., works... ..lb. .25 - —
Nitrogen solut., tanks.....ton.108.21 - —

Prices adjusted to ammonia sulphate basis from ports, and anhydrous ammonia basis, Hopewell, Va., bulk, works.

Nitrogenous process tankage,[1,7] bulk, works..unit-ton. 3.15 - 3.50
Sewage sludge,[1] bulk, works, unit-ton, 2.60 + .40 - 3.00 + .40
Nitromethane, dms., c.l., works, lb. .25 - —
Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane I, dms., works..lb. .25 - —
II, dms., works.....lb. .25 - —
Nutgalls,[6] bgs. .....lb. .50 - .52
Nutmegs,[7] West Indian, bgs., July-Sept..lb. .50 - .52
Nux vomica, bls.....lb. .10 - .11
powder, bbls., bxs.....lb. .13 - .14

## O

Oakbark extract,[1,6] 25% tannin, bbls., c.l.. works..lb. No stocks
Octane,[1] 100° C-140° C, industrial grade, dms., c.l., G.3..gal. .15¼- —
l.c.l., G. 3.....gal. .29 - —
10 gals., G. 3.....gal. .55 - —
tanks, G. 3.....gal. .13 - —
Octanol, normal, tech., 360-lb. dms., dlvd..lb. .35 - —
Oil, almond, artificial (see Benzaldehyde).
Bitter, F.F.A., bots.....lb. 4.75 - 5.00
USP, bots.....lb. No prices
sweet, exp., dms., cns.....lb. 1.15 - 1.45
Angelica root, bots.....lb.120.00 -140.00
Seed, bots.....lb. No stocks
Anilin (see A).
Anise, Russian, USP, cns....lb. 4.00 - —
Chinese, dms. .....lb. 2.25 - 2.75
Apricot kernel, cns.....lb. .52 - .65
Avocado, cns., dms.....lb. 1.00 - 1.10
Babassu,[1,7] tanks.....lb. .1110- —
Bay, W. I., 50-55%, cns.....lb. 1.40 - 1.65
Puerto Rican, 50-55%, cns..lb. 1.58 - 1.75
Bergamot, artif., cns.....lb. 2.25 - 3.00
natural, Italian, cns.....lb. 7.00 - 8.00
Birch (see Oil, sweet birch).
Birchtar, crude, cns.....lb. 5.00 - 6.00
rectified, cns.....lb. No stocks
Bois de rose, Brazil, cns.....lb. 5.00 - 5.25
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....gal. .65 - .70
Cade, USP IX (see Juniper tar).
Cajeput, tech., dms.....lb. 2.25 - —
redistilled, USP IX, cns....lb. 2.40 - 2.75
Calamus, cns.....lb.20.00 -28.00
Camphor, synthetic, white, cns. lb. .165 - .40
Cananga, native, cns.....lb. 8.00 -14.00
rectified, cns.....lb.10.50 -17.00
Capsicum (see Capsicum, oleoresin).
Caraway, NF, cns.....lb. 8.00 - 8.75
Cardamom, bots. .....lb.17.00 -22.50
Cassia, USP, cns.....lb. 5.50 - 6.50
Castor,[1] blown, ret. dms., c.l. lb. .16½- —
l.c.l. .....lb. .17½- —
cold pressed, USP, cns.....lb. .17 - .19
dms., c.l.....lb. .15 - —
l.c.l. .....lb. .15¾- —
tanks .....lb. .1450- —
Oil, castor, dehydrated, bodied, dms., c.l. .....lb. .1975- —
l.c.l. .....lb. .2015- —
tanks .....lb. .1925- —
unbodied, dms., c.l.....lb. .1875- —
l.c.l. .....lb. .1915- —
tanks .....lb. .1835- —
No. 3, tech., dms., c.l....lb. .14¾- —
l.c.l. .....lb. .15¾- —
tanks .....lb. .14 - —
sulphonated, 50% (48% fat), dms., c.l..lb. .10 - .10¼
l.c.l. .....lb. .10½- .11
75% (63% fat), dms., c.l..lb. .12¼- .12¾
l.c.l. .....lb. .13 - .13¾
80% (68% fat), dms., c.l..lb. .12¾- .13
l.c.l. .....lb. .13¼- .13¼
Cedarleaf,[1] USP, cns., dms..lb. 2.55 - 2.65
Cedarwood, USP, cns., dms..lb. 1.00 - 1.30
Celery, bots.....lb.16.50 -18.00
Chaulmoogra, USP, cns.....lb. .60 - .70
Chinawood (see Oil, tung).
Cinnamon bark, bots.....lb.32.50 -45.00
leaf, dms.....lb. 1.40 - 1.85
Citronella, Ceylon, cns.....lb. 1.75 - 1.85
Clove, USP, cns.....lb. 1.50 - 1.85
Coconut,[1,7] crude, Ceylon, bulk, c.t.f., N. Y..lb. .0585- —
Cochin type, bulk, c.t.f. N. Y..lb. .0935- —
Manila, bulk, c.t.f. N. Y..lb. .0835- —
ret. dms.....lb. .0886- .0960
edible, ex tax, bulk.....lb. .0985- —
Cod, Newfoundland, dms....gal. .88 - .90
tanks .....gal. .86 - —
Codliver, USP, bbls., dms..gal. 2.15 - 3.25
Coriander, bots. .....lb.19.50 -22.50
Corn,[1,7] crude, tanks, works. lb. .12¾- —
edible, dms., l.c.l.....lb. .16¾- .16½
tanks .....lb. .1503- —
foots, acid, 95%, tanks, dlvd. E..lb. .07¼- —
raw, 50%, tanks, dlvd. E.lb. .03¼- —

● BECAUSE we speak of production in terms of quantity and quality, we are liable to overlook the truth that production is really a *rate* in which time is a factor.

For instance, the "old-timers" of 50 years ago believed that fine varnishes could be cooked from pure, well-settled linseed oil without preliminary refining.

But imagine what such an oil would cost today, simply because of the time required to produce it. Months of settling would be necessary for securing sufficient break and moisture separation to permit its successful use. Time, we would discover, is more costly than refining.

Kellogg research creates oils that fit the exacting needs of specialized formulas, that can be used with confidence as soon as the car rolls on to the siding, and are produced in quantities that enable you to profit from your own time-saving machinery.

When you weigh in your own mind the value of using Kellogg's special oils, it is always wise to think of the time saved in production.

KELLOGG'S THE TEST TELLS 1894

**SPENCER KELLOGG and Sons, Inc.**
**BUFFALO 5, N. Y.**

THE FIRST NAME IN VEGETABLE OILS

Oil, cottonseed,[2,7] crude, tanks, works..lb. .12½- .13½
foots, acid 95%, tanks, dlvd. E..lb. .07¾- —
raw, 50%, tanks, dlvd. E. lb. .08¾- —
salad, l.c.l., dms.....lb. .16¾- .17
Creosote (see C).
Croton, NF, cns.....lb. 4.65 - 4.75
Cubeb, cns.....lb. No prices
Crude (see Petroleum, crude).
Cumin, bots.....lb.22.00 - —
Cypress, bots.....lb.12.00 -16.00
Degras (see D).
Dillseed, bots.....lb. 6.00 - 7.00
Dillweed, bots.....lb. 4.25 - 5.00
Dip (see D).
Erigeron, cns.....lb. 2.28 - 2.40
Eucalyptus, 80-90%, cns.....lb. 1.18 - 1.40
Fennel, sweet, cns.....lb. 3.75 - 4.50
Fir, Canada, cns.....lb. 2.50 - 2.80
Fishliver,[1] dms., less than 40,000 A units per gram... per million units. .14 - —
for each 1,000 additional A units up to 200,000 per gram. per million units. .001 - —
200,000 or more A units.... per million units. .30 - —
Fuel (see Petroleum, fuel oil).
Garlic, pure, bots.....oz.15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns.....lb.19.00 - —
Bourbon, cns.....lb.17.00 -22.00
Russian, cns.....lb. No stocks
Turkish (see Oil, palmarosa).
Ginger, dist., bots.....lb.12.00 -14.00
Grapefruit, Florida, cns.....lb. 2.30 - 2.70
California, bots., cns.....lb. 2.05 - 2.15
Grease, common, No. 1, bbls., c.l..lb. .14 - —
extra, No. 1, bbls., c.l.....lb. .14½- —
Winter strained, bbls., c.l..lb. .15 - —
prime, burning, bbls., c.l..lb. .16 - —
inedible, bbls., c.l.....lb. .15½- —

Oil, guaiacwood, cns.....lb. 3.00 - 4.00
Hemlock, cns.....lb. 2.60 - —
Herring,[1] crude, tanks, Pac. coast..lb. .089 - —
Juniper, berry, dom., bots.....lb. 6.50 - 8.50
Juniper tar, USP (see Juniper Tar).
Juniper wood, tech., cns.....lb. .90 - 1.00
Lard oil (see Oil, grease).
Laurel, bots.....lb. No prices
Lavandin, cns.....lb. 4.75 - 5.50
Lavender flower, French, 38%-42%, ester, cns..lb.12.00 -17.00
30-32% ester .....lb. 8.50 -12.00
Russian, cns.....lb.14.50 - —
spike, Spanish, pure, cns...lb. 2.65 - 3.10
tech., cns.....lb. 2.35 - 2.50
Lemon, USP, Calif., cns.....bl. 3.25 - —
Messina,[1] cns.....lb. 3.25 - —
Terpeneless, bots.....lb.42.00 -50.00
Lemongrass, cns., dms.....lb. 3.15 - 4.00
Lignaloe seed, Mexican, cns.. lb. No stocks
wood, Mexican, cns.....lb. 4.50 - —
Brazilian (see Bois de Rose).
Lime, distilled, Mexican, cns. lb. 5.75 - 7.25
West Indian, cns.....lb. 6.10 - 7.50
expressed, West Indian, cns. lb.13.50 -15.00
Linseed,[1,7] raw, dms., c.l....lb. .1550- —
l.c.l. .....lb. .1600- .1650
tanks .....lb. .1470- —
tankwagon .....lb. .1470- —
Boiled linseed oil, .004 higher than raw
Linseed, replacement, dms., c.l. lb. .1400- .1550
tanks .....lb. .1420- .1470
Lubricating,[1] at refinery, ex tax, California, neutral, pale, 200-800 vis., 2¼-4 pour, tanks..gal. .07¼- .11
red, 200-800 vis., 4-6½ pour, plus tanks..gal. .07¼- .11¼
Group 3, bright stock, 150-160 vis., 0.25 pour, tanks, gal. .23 - —

Oil, lubricating, at refinery, ex Tax, Group 3, neutral, 300 vis., No. 3, col., 0-10 pour, tanks .....gal. .16 - —
200-300 vis., No. 3, col., 15-25 pour, tanks, gal. .15 - .16
Pa., bright stock, 145-155 vis., No. 3 color, 10-25 pour, tanks..gal. .25 - .30½
cylinder oils, 600-630 flash, tanks..gal. .16 - .17
600-650 steam, refd., tanks..gal. .15 - .15½
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks..gal. .26 - .31
200 vis., 25 pour, tanks, gal. .28 - .33
Mace, dist., cns., dms.....lb. 4.75 - 5.25
Mineral, white (see Oil, white
Mandarin, Brazilian, cns....lb. 6.00 -10.00
Menhaden,[1,7] crude, tanks, Balto..lb. .0890- —
refined, alkali, dms., l.c.l..lb. .1400- —
kettle-bodied, dms., l.c.l..lb. .1500- —
light-pressed, dms., l.c.l..lb. .1300- —
tanks .....lb. .1225- —
mineral).
Mustard, artif., USP, cns....lb. 1.45 - 1.65
Seed, exp., dms., extra....lb. .14¾- —
Neatsfoot,[1] 15°, bbls.....gal. 1.80 - 1.85
20°, bbls.....gal. 1.75 - 1.80
30°, bbls.....gal. 1.55 - 1.60
pure, bbls.....lb. .15½- .16¼
Neroli, French, bots.....lb.185.00 -200.00
Haitian, bots.....lb.195.00 -200.00
Olticica,[1] liquid, dms., c.l..lb. .25¼- —
l.c.l. .....lb. .26¼- —
Oleo,[1] extra, dms., Chicago..lb. .1304- —
prime, dms., Chicago.....lb. .1275- —
Olibanum, bots.....lb. 4.75 - 5.20
Olive, denat., dms.....gal. No stocks
edible,[1] Calif., 3%-½% f.f.a., dms., extra, works..gal. 4.30 - 4.50
imported, dms.....gal. No stocks

Oil, olive, foots,[1] dom., dms., c.l. .....lb. .18 - —
tankcars, works.....lb. .17 - —
imp.,[1] dms., c.l., ex dock, lb. .18 - —
tankcars, ex dock....lb. .17 - —
sulphonated, 50% (40% fat), dms., c.l..lb. No stocks
l.c.l. .....lb. No stocks
80% (68% fats), dms., c.l.lb. No stocks
l.c.l. .....lb. No stocks
85% (65% fat), dms., c.l.lb. No stocks
l.c.l. .....lb. No stocks
Orange, sweet, dist., cs.....lb. 1.25 - 1.35
expressed, USP, Brazilian, cns..lb. 1.35 - 1.65
Calif., cns.....lb. 1.60 - 2.00
Florida, cns., dms.....lb. 1.50 - 1.90
Messina, coppers.....lb. No stocks
West Indian, cns.....lb. 2.25 - 3.75
sesquiterpeneless, bots.....lb.100.00 -112.00
Origanum, Spanish, cs.....lb. 2.40 - 2.85
Palm,[1,7] Niger, dms.....lb. .0895- —
Palmarosa, cns.....lb. 8.00 - 8.10
Palmkernel,[1,7] crude, bulk, c.i.f. N.Y..lb. .0885 Nom.
Paraffin,[1] 300° flash, 100-110 vis., tanks, G.S..gal. .05¾- —
320° flash, 60-70 vis., tanks, G.S..gal. .05¼- —
350° flash, 70-80 @ 100 vis., 0/10 pour, G.S..gal. .08 - —
80-85 vis., 0/10 pour, bbls., extra, Ind. ref'y..gal. .12 - —
100-110 vis., 0/10 pour, same basis..gal. .08½- —
10/25 pour, same basis.gal. .08¼- —
Patchouli, cns.....lb. No stocks
Peanut,[1,7] bleached, deod., tanks, dlvd. E..lb. .1501- —
crude, tanks, works.....lb. .12¾- .13½
foots, acid, 95%, tanks, dlvd. E..lb. .06 - —
raw, 50%, tanks, dlvd. E..lb. .04 - —
hydrogenated, tanks, dlvd. E., lb. .1573- .1575
Pennyroyal, dom., dms., cns.lb. 3.25 - 3.50
import, cns.....lb. 3.35 - 4.00
Peppermint,[1] natural, dms...lb. 6.75 - 7.00
redist., USP, dms.....lb. 7.00 - 7.50
Perilla, crude, dms.....lb. No stocks
Petitgrain, Paraguay, cns., dms..lb. 4.00 - 4.35
Pimento, berry, dms.....lb. 6.85 - 8.00
leaf, cns.....lb. 3.75 - 5.75
Pine,[1] ret. dms., c.l., dlvd. E. gal. .63 - .68½
l.c.l., dlvd. E.....gal. .73 - —
tanks, works.....gal. .55 - —
Pineneedle, cns.....lbs. 3.45 - 3.65
Putty, bbls., E. Segundo, Richmond, Cal..gal. .22½- —
contracts .....gal. .19½- —
dms., c.l., Whiting, Ind...gal. *.34 - —
Boston, Providence....gal. .25 - —
l.c.l., same basis.....gal. .27 - —
tanks, same basis.....gal. .18 - —
Martinez, Cal.....gal. .23 - —
* Extra for bbls., but subject to quantity discounts, ranging from 2c. to 5c. per gallon, according to amount purchased.
Rapeseed,[1] bulk.....lb. .13 - —
Red,[1] ret. bbls., c.l., dms., d'vd. E. of Rockies..lb. .13½- —
W. of Rockies.....lb. .14½- —
Texas and Okla.....lb. .13¾- —
tanks, dlvd. E. of Rockies.. lb. .12½- —
W. of Rockies.....lb. .13½- —
Texas and Okla.....lb. .13 - —
double dist., ret. dms., c.l., dlvd. E. of Rockies..lb. .15¾- —
W. of Rockies.....lb. .16¾- —
Texas and Okla.....lb. .16¾- —
special, non-ret. dms., bbls., c.l., dlvd. E. of Rockies. lb. .16¾- —
W. of Rockies.....lb. .17¾- —
Texas and Okla.....lb. .17¼- —
Red oil prices for ton lots are ¼ cent per pound higher, and 1c. higher for less than ton lots.
Rose, natural, coppers.....oz 31.25 -40.00
Rosemary, Spanish, tech., cns., dms..lb. 1.20 - 1.50
USP, cns., dms.....lb. 1.40 - 1.75
Rosin, 1st rectified, dms...gal. .66 - —
2nd rectified, dms.....gal. .68 - —
3rd rectified, dms.....gal. .72 - —
Rue, bots.....lb. 4.75 - 5.25
Sage, Dalmatian, cns.....lb. 6.25 - —
Spanish, cns.....lb. 2.45 - 3.25
Sandalwood, NF, Mysore, cns., case lots..lb.11.15 -11.25
Sardine, crude,[1,7] tanks, Pac. coast..lb. .089 - —
refined, alkali, dms., l.c.l..lb. .1400- —
kettle-bodied, dms., l.c.l..lb. .1500- —
light-pressed, dms., l.c.l..lb. .1300- —
tanks .....lb. .1225- —
Sassafras, natural, cns., dms.lb. 2.00 - 2.30
artificial, dms. ..... .75 - .84
Savin, cns.....lb. No stocks
Savory, cns.....lb. 8.00 - —
Seal,[1] No. 1, tanks, U.S. ports. lb. .089 - —
Sesame,[1,7] tanks.....lb. .1430- —
Shingle stain, bbls., c.l., works. gal. .2185- —
l.c.l., works.....gal. .23 - .29
tanks, works.....gal. .15 - .16
Snakeroot, Canada, cns.....lb. No stocks
Soybean,[1,7] clarified, dms....lb. .1296 -.1335
tanks .....lb. .1250- —
crude, tanks, Decatur.....lb. .1175- —
deod., Winter, tanks.....lb. .1393- —
ret. dms.....lb. .1500- .1540
foots, acid, 95%, tanks, dlvd. E..lb. .07¼- —
raw, 50%, tanks, dlvd. E..lb. .06½- —
refd., varnish, dms.....lb. .1380- .1400
tanks .....lb. .1340- .1347
Spearmint, dms.....lb. 4.00 - 4.25
Sperm, bleached, 38°, dms...lb. .1445- —
natural, 45°, dms.....lb. .1310- .1311
Spruce,[1] cns., dms.....lb. 2.65 - 2.73
Sunflower, imported, refined, tanks..lb. .1438- —
semi-refined, tanks.....lb. .1430- —
Sweet birch, North, cns....lb. 5.00 - 7.00
South, cns.....lb. 2.50 - 3.25
Tall,[1] crude, dms., c.l., works. ton.58.65 -65.00
l.c.l., works.....ton.58.65 -62.65
tanks, works.....ton.40.00 -45.00
refined, dms., c.l., works..lb. .05 - .05¼
l.c.l., works.....lb. .06¼- —
tanks, works.....lb. .04½- —
Tallow, acidless, bbls.....lb. .14¾- —
tanks .....lb. .13¾- —
Tansy, cns.....lb. No stocks
Tar,[1] pine, crude, dms., c.l., dlvd. E. cities..gal. .32¾- —
l.c.l., works.....gal. .29¾- —
tanks, dlvd. E. cities....gal. .27 - —
rectified, USP, bbls.....gal. .60¼- —
Tar acid (see T).
Thyme, NF, red, cns.....lb. 2.80 - 3.35
white, cns. .....lb. 2.95 - 3.75
Tung,[1] dms., c.l.....lb. .39 - .39½
l.c.l. .....lb. .40 - .41
tanks .....lb. .38¾- —
Turkey red (see Oil, castor, sulphonated).
Turpentine, rectified, USP, cns., dms..lb. .25 - .29
Vetiver, Bourbon, cns.....lb.37.50 -42.00
Whale,[1] ref., natural, dms..lb. No stocks
Winter bleached, dms.....lb. No stocks


# New *Aromatic* Chemicals Developed During the Past Year

***The new odor successes in the perfume and cosmetic field will be based upon these:***

## ★ ALDEHYDE FK

Basis for Lilacs to create richer, stronger Lilac Odor.
Add up to 10% Aldehyde FK.

## ★ JASMINOL

Similar in odor to Alpha Amyl Cinnamic Aldehyde but softer and finer.
Stable in soaps and creams. Basis for Jasmin Odors.

## ★ TUBEROL

Basis for Tuberose odors and perfumes for creams, lotions, etc.

## ★ CUIRUSAL

Powerful aldehyde useful in floral and many fancy bouquets.

## ★ RESEDALIA

A chemical surprisingly true to the odor of Reseda Mignonette.

## ★ ETHYLENE GLYCOL ACETAL OF PHENYL ACET ALDEHYDE

Softener and homogenizer for all types of Floral Odors.

## ★ VIOLETTONE

A Ketone basis for Violet Odors with Patchouly note.

***These are a few of our recently developed products.***

WRITE FOR COMPLETE LIST.

*Cyclamal*— An aldehyde replacing Hydroxy Citronellal. Five times stronger. Economical to use.

ESTABLISHED 1910 GD AROMATICS DIVISION

*Aromatics Division*
GENERAL DRUG COMPANY
125 Barclay St., New York 7, N. Y.
9 S. CLINTON STREET, CHICAGO 6 1019 ELLIOTT STREET, W. WINDSOR, ONT.

| | | |
|---|---|---|
| Oil, wheat germ, dms. | gal. | 10.00 - 13.50 |
| White mineral, tech., 50-65 vis., dms., incl., c.l. | gal. | .37 - — |
| l.c.l. | gal. | .40 - .44 |
| 65-75 vis., dms., dms. incl., c.l. | gal. | .38 - — |
| l.c.l. | gal. | .41 - .45 |
| USP, 80/90 vis., dms., dms. incl., c.l. | gal. | .40 - — |
| l.c.l. | gal. | .42 - .47 |
| 125/135 vis., dms., dm. incl., c.l. | gal. | .49 - — |
| l.c.l. | gal. | .52 - .56 |
| 145/155 vis., dms., dms. incl., c.l. | gal. | .51 - — |
| l.c.l. | gal. | .54 - .59 |
| 175/185 vis., dms., dms. incl., c.l. | gal. | .52 - — |
| l.c.l. | gal. | .55 - .59 |
| 200/210 vis., dms., dms. incl., c.l. | gal. | .56 - — |
| l.c.l. | gal. | .59 - .63 |
| 335/345 vis., dms., dms. incl., c.l. | gal. | .64 - — |
| l.c.l. | gal. | .67 - .71 |
| 55, 70 and 85 vis., non-ret. dms., San Francisco | gal. | .42 - — |
| smaller lots, same basis | gal. | .44 - .47 |
| 100 vis., non-ret. dms., 65 dms., San Francisco | gal. | .51½- — |
| 100 vis., non-ret. dms., San Francisco, smaller lots, same basis | gal. | .53½- .56½ |
| 145 vis., non-ret. dms., 65 dms., San Francisco | gal. | .59 - — |
| smaller lots, same basis | gal. | .61 - .64 |
| 180 vis., non-ret. dms., 65 dms., San Francisco | gal. | .62½- — |
| smaller lots, same basis | gal. | .64½- .67½ |
| 340 vis., non-ret. dms., 65 dms., San Francisco | gal. | .74 - — |
| smaller lots, same basis | gal. | .76 - .79 |
| Wintergreen, natural, North, cns. | lb. | 5.50 -12.00 |
| South, cns. | lb. | 3.65 - 4.25 |
| synthetic (see Methyl salicylate). | | |
| Wood (see Oil, tung). | | |
| Wormseed, cns. | lb. | 5.00 - 5.16 |
| Wormwood, cns. | lb. | 4.85 -10.00 |
| Ylang-ylang, Bourbon, extra, bots. | lb. | 18.50 -24.50 |
| first, bots. | lb. | 14.50 -18.50 |
| second, bots. | lb. | 11.00 -14.50 |
| third, bots. | lb. | 6.00 - 9.50 |
| Oleostearin,[1,7] dms., Chicago | lb. | .1061- — |
| Olivine, aggregate, c.l., mines | ton. | 7.00 - 9.50 |
| crushed, 8 mesh, bulk, c.l., works | ton. | 8.00 - — |
| paper bgs., c.l., works | ton. | 9.50 - — |
| lumps, paper bgs., c.l., works. | ton. | 7.00 - — |
| spalls, paper bgs., c.l., works. | ton. | 5.00 - — |
| Opium gum, USP, cns., 50-lb. lots. | lb. | 13.00 - — |
| 25-lb. lots. | lb. | 13.25 - — |
| smaller lots. | lb. | 13.50 -13.65 |
| Prices on powd. and gran. USP opium are $1.50 per pound higher. | | |
| Orange, cadmium, selenide, bbls., 100-lb. lots, works | lb. | 1.50 - — |
| Dinitroaniline, toner[1] | lb. | 1.05 - — |
| Molybdate,[1] bbls. | lb. | .41 - — |
| Orthonitroaniline toner,[1] bbls., kgs., works | lb. | .80 - 1.05 |
| Persian,[1] bbls. | lb. | .30 - .45 |
| Orange mineral, American, bbls., 5 tons, divd. Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex. and W. of Cascade Mts. in Ore. and Wash. | lb. | .12¼- — |
| divd. Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Colo., Mont., N. M., Wyo. | lb. | .12¼- — |
| other points | lb. | .12 - — |
| smaller lots, Ala., etc. | lb. | .12¾- — |
| Ariz., etc. | lb. | .13¼- — |
| Colo., Mont., N. M., Wyo. | lb. | .13 - — |
| other points | lb. | .12¼- — |
| Orange flowers, cs. | lb. | .48 - .50 |
| Orange peel, bitter, Haitian, bgs. | lb. | .13½- — |
| sweet, bls. | lb. | .14 - .14½ |
| Oregano, Mexican, curly leaf, bgs. | lb. | .08¾- .09 |
| flat leaf, bgs. | lb. | .08¾- .09¾ |
| Orris root, Florentine, bls. | lb. | .55 - .58 |
| Verona, bls. | lb. | No stocks |
| Portuguese, bls. | lb. | .45 - .47 |
| Orthoamylphenol, dms., works | lb. | .25 - — |
| Orthoanizidin, bbls. | lb. | .70 - — |
| Orthochloraniline, dms. | lb. | .60 - — |
| Orthochlorophenol, dms. | lb. | .25 - .27 |
| Orthocresol,[9] 30.4° C., min., M.P., dms., c.l., works | lb. | .17½- .18 |
| l.c.l., works | lb. | .18 - .18½ |
| 29° C. min., M.P., dms., c.l., works | lb. | .16½- .17 |
| l.c.l., works | lb. | .17 - .17½ |
| Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies | lb. | .07 - — |
| l.c.l., same basis | lb. | .08 - — |
| tanks, same basis | lb. | .06½- — |
| Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher. | | |
| Orthonitroaniline, dms. | lb. | .43 - .55 |
| Orthonitrobiphenyl, tech., grade A., dms., c.l., works | lb. | .10 - — |
| l.c.l., works | lb. | .11 - — |
| grade B, dms., c.l., works | lb. | .06 - — |
| l.c.l., works | lb. | .07 - — |
| Orthonitrochlorobenzene, dms. | lb. | .15 - .18 |
| Orthonitroparachlorophenol, cns. | lb. | .75 - — |
| Orthonitrotoluene, dms. | lb. | .09 - — |
| Orthophenetidin, dms. | lb. | .82 - — |
| Orthotoluidin, dms. | lb. | .19 - — |
| Osage orange crystals, bbls. | lb. | .29 - — |
| extract, No. 1, bbls. | lb. | .14 - — |
| Ouabaine, USP, bots. | gram. | 3.00 - 4.00 |
| Oxyquinolin sulphate, cns., 100 lbs., works | lb. | 3.50 - — |
| small lots, works | lb. | 3.75 - 4.15 |

## P

| | | |
|---|---|---|
| Papain, powd., cs. | lb. | 4.50 - 4.75 |
| Papaverine, natural or synthetic, hydrochloride, NF, cns., 100-oz. lots | oz. | 7.00 - — |
| smaller lots | oz. | 7.05 - 7.35 |
| Sulphate, cns. | oz. | 7.10 - 7.35 |
| Paprika,[4] Calif., sweet Callente, ground, bgs. | lb. | .40 - .41 |
| Chilean, bgs. | lb. | .30½- .35½ |
| Portuguese, bgs. | lb. | .38 - .42 |
| Spanish, bgs. | lb. | .44 - .45 |
| Para-anisidin, dms., works | lb. | .75 - — |
| Parachlorophenol, dms., c.l., works. | lb. | .24 - — |
| l.c.l., same basis | lb. | .25 - .27 |
| Paracresol, bbls., works | lb. | .41 - — |
| Paracymene, dms., c.l., works | lb. | .1595- — |
| l.c.l., same basis | lb. | .1645- — |
| tanks, same basis | lb. | .1545- — |
| Paradichlorobenzene, dms., c.l., works | lb. | .11 - .12 |
| l.c.l., same basis | lb. | .12½- .15 |
| Paraffin,[1] crude scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery | lb. | .04¼- — |
| fully ref'd slabs, loose, 117-119 ASTM, c.l., refinery | lb. | .05 - — |
| 120-122 ASTM, refinery | lb. | .0520- — |
| 122-124 ASTM, refinery | lb. | .0520- — |
| 125-127 ASTM, refinery | lb. | .0560- — |
| 127-129 ASTM, refinery | lb. | .0585- — |
| 128-130 ASTM, refinery | lb. | .0585- — |
| 130-132 ASTM, refinery | lb. | .0615- — |
| 132-134 ASTM, refinery | lb. | .0640- — |
| 135-137 ASTM, refinery | lb. | .0715- — |
| 140-142 ASTM, refinery | lb. | .0810- — |
| 146-148 ASTM, refinery | lb. | .1050- — |
| Prices in bags 4/10c. lb. higher. | | |
| Paraformaldehyde, dms., 1,000 lbs. or more, works | lb. | .21 - — |
| smaller lots, works | lb. | .22 - — |
| Paraldehyde, tech., 98%, 55 and 110-gal. dms., l.c.l., wks. | lb. | .12 - — |
| 10-gal. dms., works | lb. | .15 - — |
| USP, cbys., cns. | lb. | .35 - .45 |
| Paranitroaniline, kgs., works | lb. | .41 - .43 |
| Paranitrochlorobenzene, kgs., wks. | lb. | .15 - — |
| Paranitrophenol, kgs. | lb. | .35 - — |
| Paranitrotoluene, kgs., works | lb. | .30 - — |
| Paraphenylenediamine, tech., kgs. | lb. | 1.25 - — |
| Paratoluenesulphonamide, bbls. | lb. | .70 - — |
| Paratoluidin, bbls., works | lb. | .48 - — |
| Paris green,[1] dealer, distributor, dms., kgs., c.l., works, frt. alld. | lb. | .20 - .27 |
| l.c.l., same basis | lb. | .22 - .28 |
| Passion flower herb, bls. | lb. | .30 - .32 |
| Patchouli leaves, bls. | lb. | .38 - .40 |
| Pectin, bbls. | lb. | 1.25 - — |
| Penicillin,[4,8] ampule, per 100,000 units. | | .60 - .75 |
| Pennyroyal leaves, bls. | lb. | .24 - .25 |
| Pentachlorophenol, dms., works, | lb. | .20 - .28 |
| Pentaerythritol, CP, bbls., divd. | lb. | .75 - — |
| smaller containers | lb. | 1.00 - — |
| tech., bbls., c.l. | lb. | .27 - — |
| l.c.l. | lb. | .31 - — |
| Pentane, 28°-38° C., industrial grade, dms., c.l., Group 3. | gal. | .11 - — |
| l.c.l., dms., Group 3. | gal. | .19 - — |
| tanks, Group 3 | gal. | .07½- .07¾ |
| laboratory grade, 10-gal. cns., divd. E. | gal. | .55 - — |
| dms., c.l., Group 3 | gal. | .16 - — |
| l.c.l., Group 3 | gal. | .29 - — |
| Pepper, black,[1,7] 15 tons, bgs. | lb. | .15 - .15½ |
| 50 to 100 bgs. | lb. | .15¾- .16¼ |
| 25 to 49 bgs. | lb. | .16¼- .16½ |
| 5 to 24 bgs. | lb. | .16½- .17 |
| Red, capsicum, Carolina, longs, new crop, bgs., ship't point. | lb. | No stocks |
| sports, old crop, bgs. | lb. | No stocks |
| Louisiana, sports, bgs. | lb. | No stocks |
| long, new crop, bgs., ship't point. | lb. | No stocks |
| Chillies, Haitian, bgs. | lb. | .55 - .60 |
| Mexican, long | lb. | .43 - .44 |
| Niger | lb. | .55 - .56 |
| White,[1,7] bgs., 15 tons. | lb. | .23 - .23½ |
| Peppermint, dom., USP, bls. | lb. | 1.20 - 1.25 |
| imported, USP, bls. | lb. | 1.40 - 1.50 |
| Perchloroethylene, dms., c.l., Zone 1, works, frt. alld. | lb. | .0772- .0800 |
| Zone 2, same basis | lb. | .0832- .0860 |
| Zone 3, same basis | lb. | .0882- .0900 |
| Zone 4, same basis | lb. | .0876- .0900 |
| l.c.l., Zone 1, same basis | lb. | .0882- .0850 |
| Zone 2, same basis | lb. | .0882- .0900 |
| Zone 3, same basis | lb. | .0932- .0950 |
| Zone 4, same basis | lb. | .0926- .0950 |
| Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3), Col., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash. | | |
| Peru balsam, dms. | lb. | 1.25 - 1.30 |
| Petrolatum, tech., dark, bbls., c.l., Group 3. | lb. | .021 - — |
| golden topaz, bbls., c.l. | lb. | .032 - — |
| l.c.l. | lb. | .036 - — |
| red, veterinarian, bbls., c.l. | lb. | .024 - — |
| l.c.l. | lb. | .028 - — |
| USP, amber, non-ret. dms., c.l. | lb. | .03½- — |
| l.c.l. | lb. | .04½- — |
| extra amber, dms., c.l. | lb. | .03¾- — |
| l.c.l. | lb. | .04¾- — |
| cream, c.l., dms. | lb. | .05 - — |
| l.c.l. | lb. | .06½- — |
| white, lily, dms., c.l. | lb. | .05¾- — |
| l.c.l. | lb. | .07¼- — |
| snow, dms., c.l. | lb. | .06½- — |
| l.c.l. | lb. | .08 - — |
| soft, dms., c.l. | lb. | .05¾- — |
| l.c.l. | lb. | .06¾- — |
| yellow, soft, dms., c.l. | lb. | .03½- — |
| l.c.l. | lb. | .04½- — |

**If it's LEMON flavored—**

**IT'S 4 TO 1 THE OIL IS EXCHANGE!**

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PRODUCTS DEPARTMENT, ONTARIO, CALIF.

*Producing Plant:*

The Exchange Orange Products Co., Ontario, Calif.

| | | |
|---|---|---|
| **Petroleum, crude, bulk, at wells,** | | |
| **California, heavy grades** | bbl. | 1.66 - 1.68 |
| **Illinois** | bbl. | 1.47 - — |
| **Kentucky, Union County** | bbl. | 1.42 - 1.47 |
| **Louisiana-Arkansas** | bbl. | .96 - 1.50 |
| **Oklahoma-Kansas** | bbl. | .95 - 1.35 |
| **Pennsylvania, lower field** | bbl. | 2.96 - 3.10 |
| **Upper field** | bbl. | 1.41 - 2.75 |
| **Texas, East** | bbl. | 1.35 - — |
| **Gulf coast** | bbl. | 1.16 - 1.58 |
| **North, North-Central** | bbl. | 1.11 - 1.35 |
| **Panhandle** | bbl. | .90 - 1.32 |
| **West** | bbl. | .86 - 1.22 |
| **Wyoming** | bbl. | .95 - 1.35 |
| **Ether, laboratory grade, 30°-60° C, 10-gal. cns., dlvd. E.** | gal. | .55 - — |
| **dms., c.l., Group 3** | gal. | .16 - — |
| **l.c.l., same basis** | gal. | .20 - — |
| **35°-60° C., 10-gal., cns., dlvd., E.** | gal. | .55 - — |
| **dms., c.l., Group 3** | gal. | .16 - — |
| **l.c.l., same basis** | gal. | .20 - — |
| **40°-75° C, 10-gal., cns., dlvd., E.** | gal. | .55 - — |
| **dms., c.l., Group 3** | gal. | .16 - — |
| **l.c.l., same basis** | gal. | .20 - — |
| **Fuel oil,[1] furnace, tanks, at refinery, Arkansas, No. 2** | gal. | .04½- — |
| **No. 3** | gal. | .04 - — |
| **Bayonne, No. 2, tanks** | gal. | .057 - — |
| **Petroleum, fuel oil, furnace, tanks, at refinery, California, heavy** | bbl. | 1.25 - — |
| **light** | bbl. | 1.30 - — |
| **diesel** | gal. | .04¾- — |
| **range** | gal. | .05¾- — |
| **Group 3, No. 1** | gal. | .04¾- — |
| **No. 2, straw** | gal. | .04½- — |
| **No. 3** | gal. | .04 - — |
| **range** | gal. | .04½- — |
| **Kansas, No. 6** | bbl. | 1.23 - — |
| **Oklahoma, No. 1, p.w.** | gal. | .04¾- — |
| **No. 1, straw** | gal. | .04¼- — |
| **No. 2, straw** | gal. | .04½- — |
| **No. 3** | gal. | .04 - — |
| **No. 6** | bbl. | 1.18 - — |
| **range** | gal. | .04½- — |
| **Pennsylvania, No. 1** | gal. | .06675-.06925 |
| **No. 2** | gal. | .0625-.06375 |
| **No. 3** | gal. | .0625-.06375 |
| **36-40 gravity** | gal. | .05¾-.06⅛ |
| **bunker C (No. 6), tanks, Albany, N. Y.** | bbl. | 1.92 - — |
| **Baltimore, Md.** | bbl. | 1.72 - — |
| **Boston, Mass.** | bbl. | 1.765 - — |
| **Charleston, S. C.** | bbl. | 1.63 - — |
| **Fall River, Mass.** | bbl. | 1.735 - — |
| **Jacksonville, Fla.** | bbl. | 1.63 - — |
| **New Haven, Conn.** | bbl. | 1.735 - — |
| **New York, N. Y.** | bbl. | 1.72 - — |
| **Norfolk, Va.** | bbl. | 1.68 - — |
| **Philadelphia, Pa.** | bbl. | 1.72 - — |
| **Portland, Me.** | bbl. | 1.765 - — |
| **Portsmouth, N. H.** | bbl. | 1.765 - — |
| **Providence, R. I.** | bbl. | 1.735 - — |
| **Savannah, Ga.** | bbl. | 1.63 - — |
| **Tiverton, R. I.** | bbl. | 1.735 - — |
| **Wilmington, N. C.** | bbl. | 1.68 - — |
| **Lacquer diluent, California, 100 l.b.n., 200 e.p., tanks, dlvd. Los Angeles** | gal. | .11 - — |
| **Fort Wells, Wash.** | gal. | .13 - — |
| **East Coast, N. J., N. Y., tanks, refinery** | gal. | .11½- — |
| **Petroleum, lacquer, delivered, group 3, benzol type, tanks** | gal. | .07⅛- — |
| **toluol type, tanks** | gal. | .07⅛- — |
| **San Francisco** | gal. | .11½- — |
| **Willbridge, Ore.** | gal. | .12 - — |
| **Mineral spirits, California, San Francisco, 168-252 b.r., tanks** | gal. | 10¼- — |
| **198-290 b.r., tanks** | gal. | .10¼- — |
| **246-397 b.r., tanks** | gal. | .10¼- — |
| **312-408 b.r., tanks** | gal. | .09 - — |
| **362-458 b.r., tanks** | gal. | .09 - — |
| **East coast, N. J., N. Y., tanks, refinery** | gal. | .10 - — |
| **Group 3, tanks, refinery** | gal. | .06¼-.06⅛ |
| **Gulf coast, tanks** | gal. | .06¼- — |
| **tankwagons, Baltimore** | gal. | .1210- — |
| **Boston** | gal. | .12 - — |
| **Bridgeport, Conn.** | gal. | .1430- — |
| **Buffalo** | gal. | .1240- — |
| **Camden, N. J.** | gal. | .11 - — |
| **Chicago** | gal. | .1150- — |
| **Detroit** | gal. | .1380- — |
| **Hartford** | gal. | .1430- — |
| **Kansas City, Mo.** | gal. | .1280- — |
| **Lancaster, Pa.** | gal. | .12 - — |
| **Milwaukee** | gal. | .1240- — |
| **Minneapolis** | gal. | .1220- — |
| **Newark** | gal. | .11 - — |
| **New York** | gal. | .11 - — |
| **Philadelphia** | gal. | .11 - — |
| **Pittsburgh** | gal. | .125 - — |
| **Providence** | gal. | .13 - — |
| **Rochester** | gal. | .1320- — |
| **St. Louis** | gal. | .1370- — |
| **Syracuse** | gal. | .14 - — |
| **Washington, D. C.** | gal. | .135 - — |
| **Wilmington, Del.** | gal. | .11 - — |
| **Naphtha, cleaners, California, tanks, San Francisco** | gal. | .12 - — |
| **East coast, N. J., N. Y., tanks, refinery** | gal. | .11 - — |
| **Group 3, tanks, refinery** | gal. | .07½- .07½ |
| **Petroleum, naphtha, cleaners, tankwagon, Newark** | gal. | .12 - — |
| **Bridgeport** | gal. | .1730- — |
| **Chicago** | gal. | .1380- — |
| **Detroit** | gal. | .15 - — |
| **Milwaukee** | gal. | .1440- — |
| **Minneapolis** | gal. | .1420- — |
| **New York** | gal. | .12 - — |
| **Philadelphia** | gal. | .125 - — |
| **St. Louis** | gal. | .1470- — |
| **high-solvency, No. 8, tanks, frt. alld. Kansas City E.** | gal. | .225 - — |
| **No. 30, tanks, same basis** | gal. | .220 - — |
| **No. 40, tanks, same basis** | gal. | .220 - — |
| **No. A-80, tanks, Carteret, N. J.** | gal. | .21½- — |
| **Chicago, Cincinnati, Detroit** | gal. | .23 - — |
| **No. B-90, tanks, all shipping points** | gal. | .24½- — |
| **No. F-80, tanks, Carteret, N. J.** | gal. | .23 - — |
| **V.M.&P., at refinery, California, 46.5, 254 l.b.p., 380 e.p., tanks, El Segundo** | gal. | .41 - — |
| **Richmond** | gal. | .11½- — |
| **Willbridge, Ore., Pt. Wells, Wash.** | gal. | .12 - — |
| **54-77, 190 l.b.p., 310 e.p., Los Angeles** | gal. | .10 - — |
| **San Francisco** | gal. | .10½- — |
| **Portland, Seattle** | gal. | .11 - — |
| **Group 3, tanks** | lb. | .07½- .07½ |
| **Gulf Coast (dlvd. New Orleans), tanks** | gal. | .06½- — |
| **tankwagon, Boston** | gal. | .13 - — |
| **Chicago** | gal. | .1380- — |
| **Detroit** | gal. | .15 - — |
| **Milwaukee** | gal. | .1540- — |
| **Minneapolis** | gal. | .1520- — |
| **Newark** | gal. | .125 - — |
| **New York** | gal. | .12 - — |
| **Philadelphia** | gal. | .125 - — |
| **Pittsburgh** | gal. | .12½- — |
| **St. Louis** | gal. | .1470- — |
| **Solvent, rubber, at refinery, California, San Francisco** | gal. | .25½- — |
| **East Coast, N. J. N. Y., tanks** | gal. | .11 - — |
| **Group 3, tanks** | gal. | .07½- .07½ |
| **Stoddard (CS 8-33), at refinery:—** | | |
| **California (San Francisco), tanks** | gal. | .11 - — |
| **East Coast, N. J., N. Y., tanks** | gal. | .10 - — |
| **Group 3, tanks** | gal. | .06¾- — |
| **Pennsylvania, western, tanks** | gal. | .07¼- .07½ |
| **tankwagon, Baltimore** | gal. | .13 - — |
| **Boston** | gal. | .12 - — |
| **Chicago** | gal. | .13½- — |
| **Detroit** | gal. | .1580- — |
| **Milwaukee** | gal. | .1440- — |
| **Minneapolis** | gal. | .1420- — |
| **Newark** | gal. | .11 - — |
| **New York** | gal. | .11 - — |
| **Philadelphia** | gal. | .11 - — |
| **Pittsburgh** | gal. | .12½- — |
| **St. Louis** | gal. | .1370- — |
| **Syracuse** | gal. | .14 - — |
| **Toluol, tanks, dlvd. E.** | gal. | .27 - — |
| **Xylol, tanks, dlvd. E.** | gal. | .26 - — |
| **Sulphonates, 68% sulphonic content, ret. dms., c.l., works** | lb. | .09¾- — |
| **l.c.l., works** | lb. | .09¾- .10⅜ |
| **tanks, works** | lb. | .09¼- — |
| **50% sulphonic content, ret. dms., c.l., works** | lb. | .09¾- — |
| **l.c.l., works** | lb. | .09¾- .10⅜ |
| **tanks, works** | lb. | .09¼- — |
| **Phenobarbital, cns.** | lb. | 3.60 - 3.70 |
| **dms., 100 lbs.** | lb. | 3.50 - — |
| **Phenol, 90-92% (cresol, 8-10%), dms., c.l., works, frt. equald.** | lb. | .10 - — |
| **l.c.l., same basis** | lb. | .10⅜- — |
| **tanks, same basis** | lb. | .09 - — |
| **82-84% (cresol, 16-18%), dms., c.l., same basis** | lb. | .09¾- .10¼ |
| **l.c.l., same basis** | lb. | .10¼- — |
| **tanks, same basis** | lb. | .09⅜- .09¼ |
| **USP, dms., c.l., same basis** | lb. | .10½- — |
| **l.c.l., same basis** | lb. | .11¼- — |
| **tanks, same basis** | lb. | .09¼- — |
| **Phenolphthalein, USP, bbls., dms., 2,000 lbs.** | lb. | .85 - — |
| **smaller lots** | lb. | .87 - .92 |
| **Yellow, fib. dms., 2,000 lbs.** | lb. | .80 - — |
| **smaller lots** | lb. | .82 - .87 |
| **Phenothiazin, NF, fib. dms., ton lots or more, works** | lb. | .49 - — |
| **smaller lots, works** | lb. | .54 - — |
| **smaller lots** | lb. | .54 - — |
| **Phenylacetaldehyde, solution, 50%, bots.** | lb. | 2.45 - 2.50 |
| **100%, bots.** | lb. | 4.00 - 5.00 |
| **Phenylethyl acetate, dms.** | lb. | 2.15 - 2.70 |
| **Phenylethylphenyl acetate, bots.** | lb. | 5.25 - 7.50 |
| **Phenylhydrazin, base, CP, bots.** | lb. | 4.55 - — |
| **Hydrochloride, CP, bots., works.** | lb. | 7.10 - — |
| **commercial, kgs., works** | lb. | 1.75 - — |
| **Phloroglucinol, CP, fib. dms.** | lb. | 13.75 -14.75 |
| **tech., fib. dms.** | lb. | 12.00 -12.55 |
| **Phosgene, ton lots, works** | lb. | .19 - — |
| **Phosphate, defluorinated (see under D).** | | |
| **Phosphate rock,[1] Fla., land pebble, unground, run-of-mine, washed, dried, 68%-66% b.p.l., bulk, car at mine, c.l.** | long ton. | 2.20 - — |
| **70%-68%, same basis** | long ton. | 2.60 - — |
| **72%-70%, b.p.l., same basis** | long ton. | 3.20 - — |
| **75%-74%, b.p.l., same basis** | long ton. | 4.20 - — |
| **77%-76%, b.p.l., same basis** | long ton. | 5.20 - — |
| **entirely pebble, 50c. per ton higher than above prices.** | | |
| **finely ground, 65.5% o.p.i., 30% $P_2O_5$ minimum** | short ton. | 3.15 - — |
| **68%, basis 31% $P_2O_5$ minimum** | short ton. | 3.35 - — |
| **70%, basis 32% $P_2O_5$ minimum** | short ton. | 3.70 - — |
| **70-68% b.p.l., 5% i. & a., same basis** | long ton. | 5.30 - — |
| **72%-70%, b.p.l., 5½% i. & a., same basis** | long ton. | 5.80 - — |
| **refinery, ground, 29% $P_2O_5$, same basis** | long ton. | 4.95 - — |
| **30% $P_2O_5$, same basis** | long ton. | 5.15 - — |
| **31%, $P_2O_5$, same basis** | short ton. | 5.25 - — |
| **32%, $P_2O_5$, same basis** | short ton. | 5.50 - — |
| **33%, $P_2O_5$, same basis** | short ton. | 6.00 - — |


A NEW ERA IN INSECT CONTROL

VELSICOL

1068

MANY TIMES MORE POWERFUL THAN DDT

*Authoritative tests prove that VELSICOL 1068 is from 3 to 5 times as effective as DDT against the cockroach, the fly, the grasshopper, the squash bug, the pea aphid, the spirea aphid, and the Colorado potato beetle larva. Tests in progress at several leading Universities* and at other experimental stations, indicate the outstanding superiority of VELSICOL 1068 against a wide variety of destructive pests not considered here.*

*In addition to the superlative killing power of VELSICOL 1068, this toxicant exhibits prolonged residual activity, and is completely soluble in all commonly used solvents, remaining in stable solution at all atmospheric temperatures.*

*It can be stated now without gainsaying that this product of American chemical research sets new standards of performance, opens a new era in insect control.*

*To obtain latest data on VELSICOL 1068 see that your name is put on our mailing list. VELSICOL 1068 is available as a 20% concentration in highly refined kerosene, and in Technical Grade, 90% purity.*

*NAMES FURNISHED ON REQUEST

"1068"—U. S. PATENTS PENDING

VELSICOL Corporation

*Manufacturers of: Insect Toxicants • Synthetic Resins • Coresin Core Oils • Aromatic Solvents*

General Offices: 120 E. Pearson St. • Chicago 11, Illinois

Branch Offices: 11 Park Place, New York 7, N. Y. • 408 Boulevard Bldg., Detroit 2, Mich. • 1900 Euclid Avenue, Cleveland, Ohio

Phosphorus, red, amorphous, cs. lb. .40 - .44
tins, export..lb. .55 - —
yellow, cns..lb. .23 - .25
dms., c.l..lb. .14½- —
Oxychloride, dms., c.l..lb. .10½- —
l.c.l., dms..lb. .12½- .15
Pentoxide, dms., c.l., works.lb. .11 - .12
l.c.l., works..lb. .13 - .14
Sesquisulphide, cs..lb. .38 - .42
Trichloride, dms., c.l..lb. .10½- —
l.c.l. ..lb. .12½- .15
Phthalamide, bbls., works..lb. .35 - .40
kgs., works..lb. .45 - .50
Phthalic anhydride, bgs., bbls., c.l., works, frt. alld. E. of Denver..lb. .13 - —
l.c.l., same basis..lb. .14 - —
Pichi leaves, bgs..lb. .07 - .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, bots..oz. 6.00 - —
Pilocarpine hydrochloride, USP, bots., vis..oz. 4.75 - 5.10
Nitrate, bots., vis..oz. 3.65 - 5.00
Pimento, Jamaica, bgs..lb. .26 - .26½
Pinetar, retort, dms., incl., c.l., works..gal. .31 - —
l.c.l., works, dms. incl..gal. .32 - —
tanks, divd. E..gal. .27 - —
Pinkroot, bls..lb. 1.10 - 1.15
Piperazine hexahydate, bots..lb. 16.00 - —
Pitch, burgundy (see B).
Coaltar, 160° m.p., bbls., c.l., works..ton. 19.00 - —
l.c.l., works..ton. 22.00 - —
Cottonseed, dms., works..lb. .04 - .06
Hardwood, paper bgs., works.lb. .03½- —
Linseed, dms..lb. .05 - .05½
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms..100 lbs. 6.50 - —
stands, 200 lbs..stand. 6.00 - —
Soybean, dms., works..lb. .04 - .06
Plaster of paris (see Gypsum).
Podophyllin, dms. ..lb. 10.50 -10.70
Pokeroot, bls..lb. .19 - .20
Polystyrene, plain colors, dms., 30,000 lbs., works, frt. alld. lb. .32 - —
20,000 lbs., frt. alld..lb. .33 - —
smaller lots, frt. alld..lb. .34 - .38
Water-clear, polystyrene, 7c. per lb. less than plain colors.
Pomegranate, root bark, bgs..lb. .75 - .76
Poppy flowers, bls..lb. .60 - .70
Seed, Argentine, bgs..lb. .32½- .33
Danish, bgs..lb. .35 - .36
Dutch ..lb. .35½- .36
Indian, white, bgs..lb. No stocks
Swedish, bgs. ..lb. .31 - .31½
Turkish, bgs. ..lb. .32 - .32½
Potash abietate..lb. .08 - —
Acetate, USP, dms..lb. .28 - —
Arsenite, USP, solut., cbys., djns..lb. .13 - .15
Bicarbonate, USP, cryst., gran., bbls., dms..lb. .10 - .21
Bichromate,[1] bgs., c.l. works. lb. .10 - —
l.c.l., works..lb. .10½- .10¾
Potash bichromate in bbls. ¼c. higher.
Borate, gran., bbls., N. Y. or Chi..lb. .1015- —
Bromide, USP, gran., 500-lb. bbls., dms..lb. .25 - —
100-lb. kgs..lb. .26 - —
Carbonate, calcined, bbls., c.l., works..lb. .06½- —
l.c.l., same basis..lb. .06¾- —
hydrated, 83-85%, bbls., c.l., works..lb. .05½- —
dms., l.c.l., same basis..lb. .05¾- —
USP, gran., bbls., dms..lb. .14 - .20
powd., bbls., dms..lb. .19 - .21
Caustic, low-chloride, 90% basic, flake, dms., c.l., works 100 lbs. 9.31 - —
l.c.l., works..100 lbs. 9.68½- —
liquid, dms., c.l., works.. 100 lbs. 8.56 - —
l.c.l., works..100 lbs. 8.68½- —
tanks, works..100 lbs. 8.06 - —
solid ..100 lbs. 8.56 - —
l.c.l., works..100 lbs. 8.93½- —
regular, flake, 88-92%, dms., c.l., works..lb. .07 - —
l.c.l., works..lb. .07¼- .07½
liquid, 45% basis, dms., c.l., works, frt. alld..lb. .03½- —
l.c.l., same basis..lb. .03¾- .03½
tanks, same basis..lb. .02¾- —
solid, 88-92%, dms., c.l., works..lb. .06¼- —
l.c.l. ..lb. .06½- .06¾
Chromate, bgs..lb. .24 - .28
Chlorate,[2] cryst., kgs., c.l., works..lb. .11 - .11¾
l.c.l., works..lb .119 - .13
powd., dms., kgs., c.l., works. lb. .09¾- —
l.c.l., works..lb. .119 - .13
export, 1 to 10 tons, kgs., ex whse..lb. .16 - .18
Chloride, tech., cryst., 96%, bgs., kgs..lb. .08 Nom.
Citrate, USP, gran., bbls., dms. lbs. 33½- .33½
powd., 3c. per lb. higher.
Cyanide, dms., works..lb. .55 - —
Fluoride, bbls..lb. .34 - .40
Glycerophosphate, 75% solution, cns., cbys..lb. 1.65 - 1.67
dms., 1,000-lb. lots..lb. 1.80 - —
100-lb. lots..lb. 1.90 - —
Guaiacolsulphonate, NF, dms. lb. 1.65 - 1.75
Hydroxide, USP, sticks, dms.lb. .24 - .26
Hypophosphite, cns..lb. .72 - .75
Iodate, bots., 5 lbs..lb. 3.40 - —
cns., 25 lbs..lb. 3.35 - —
Iodide, bots., cns..lb. 1.44 - 1.48
dms. ..lb. 1.33 - 1.38
Manure salt, 22%, $K_2O$, Carlsbad, N. M..unit-ton. .20 - —
25% $K_2O$, same basis.unit-ton. .21 - —
Metabisulphite, gran., bbls..lb. .19 - .21
powd., bbls..lb. .25 - —
Muriate, dom., 60-62-63% $K_2O$, bulk, ex-vessel, ports.... unit-ton. .53½- —
granular, 50 - 52% $K_2O$.... unit-ton. .53½- —

Domestic muriate of potash prices, basis f.o.b. Carlsbad, N. M., are 11.2c. per unit of $K_2O$ less than ex vessel price, basis Trona, Cal.; 8c. per unit of $K_2O$ less than ex vessel price at Pacific coast ports.

Nitrate (see Saltpeter).
Oxalate, neutral pure, gran., bbls., dms..lb. .37 - .50
tech. fine gran., bbls., dms. lb. .28 - .31
Perchlorate, kgs., works..lb. .09¾- .11
Permanganate, tech., dms., works..lb. .19¾- .20¾
USP, dms., works..lb. .20½- .21
Persulphate, dms., c.l., works, lb. .16 - —
l.c.l., same basis..lb. .20 - —
Prussiate, red, kgs..lb. .50 - .58
Yellow, bbls..lb. .16 - .17
Ricinoleate, tech., bbls..lb. .18 - —

Potash silicate, glass, bgs., c.l., works..ton. 200.00 - —
l.c.l. ..100 lbs. 15.25 - —
solution, 29° Be, ret. drums, c.l., works..100 lbs. 4.25 - —
l.c.l., 5 or more, works. 100 lbs. 5.00 - —
1-4, works..100 lbs. 5.50 - —
32° Be, ret. dms., c.l., works. 100 lbs. 4.75 - —
l.c.l., 5 or more, works. 100 lbs. 5.50 - —
1-4, works..100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works..100 lbs. 5.75 - —
l.c.l., 5 or more, works. 100 lbs. 6.50 - —
1-4, works..100 lbs. 7.00 - —
Sulphate, NF, gran..lb. .14 - .20
powd., bbls..lb. .15 - .31
tech., dom., bulk,[3] basis 90-95% $K_2SO_4$, min. 90% ex vessel Atlantic or Gulf ports..ton. 36.25 - —
Sulphocyanide, cryst., N.F., dms..lb. .62 - .70
Triocyanate (see Potash sulphocyanide)
Xanthate, dms., c.l..lb. .12 - —
Potash-gold cyanide, 41% gold, bots., works..oz. 14.20 -14.96
Potash-magnesia sulphate,[6] bulk, min., 40% $K_2SO_4$, 18.50% MgO, ex vessel, ports...ton. 26.00 - —
Potash-soda ferricyanide, kgs., works..lb. .40 - .48
Potash-titanium oxalate, bbls., dms..lb. .45 - .50
Prickly ash bark, bls..lb. .40 - .45
Berries, bgs..lb. .20 - .21
Prince's pine herb, bls..lb. .50 - .65
Procaine hydrochloride, cns., 100-lb. lots..lb. 4.00 - —
smaller lots..lb. 4.25 - 4.75
Propane,[1] industrial grade, tanks, Group 3..gal. .03¾- —
Propyleneglycol, dms., c.l., frt. alld. in E..lb. .15½- —
l.c.l., same basis..lb. .16½- —
tanks, same basis..lb. .14½- —
Psyllium seed (see Fleaseed).
Pulsatilla, bls..lb. .60 - .65
Pumice,[1] grd., fine, bgs., ton lots. lb. .03¾- —
smaller lots..lb. .03¾- .04
coarse, 0½, 1, 1½, 2, 3, bgs., ton lots..lb. .03¾- —
smaller lots..lb. .03¾- .04¼
Chi., ton lots..lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed, bgs..lb. .27 - .28
Purple lake (see Red).
Putty, com'l, dms..100 lbs. 3.15 - —
linseed oil, raw, dms..100 lbs. 5.00 - —
refined, dms..100 lbs. 5.50 - —
standard, dms..100 lbs. 4.20 - —
Pyrethrum,[1] concentrate, dewaxed, 20% for aerosol bombs, dms., works..lb. 9.25 - 9.30
liquid (20 to 1), basis 2 grams pyrethrins for 100 cc., dms., regular base, works..gal. 6.65 - —
odorless base, dms., works. gal. 6.75 - —
(30 to 1), base 3 grams pyrethrins, per 100 cc., bbls., works..gal. 10.00 - —
Flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. .33¾- —
powder, 0.5% pryethins, bbls., works..lb. .25 - —
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 1.55 - 1.60
refd., 2°, ret. dms., same basis. lb. .45 - .45½
Pyrites, Spanish, c.i.f. Atl. ports. lon ton. 8.00 -10.00
Pyrocatechin (see Catechol).
Pyrophyllite, standard, 200 mesh, c.l., bulk, mines..ton. 10.00 -11.50
325 mesh, same basis..ton. 13.00 -13.90
No. 3, 200 mesh, c.l., mines, ton. 9.50 - —
325 mesh, same basis..ton. 11.50 - —
Pyrophylite in paper bgs., $1.50 per ton extra.
Pyroxylin, scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works..lb. .17 - —
gray, cs., works..lb. .17 - —
mixed, mottled, cs., wks.lb. .14 - —
white, China, ivory, cs., works..lb. .17 - —
dense, cs., works..lb. .17 - —
translucent, pastels, cs., works..lb. .17 - —
transparent, cs., works..lb. .19 - —
colors, cs., works..lb. .17 - —
shavings, amber, cs., works.. lb. .17 - —
mixed colors, cs., works..lb. .14 - —
white, cs., works..lb. .17 - —

# Q

Quassia chips, bls..lb. .08 - .09
Quebracho extract,[1] solid, 63% tannin, bgs., c.l., ex dock, in bond..lb. .063125- .06525
clarified, 64% tannin, bgs., c.l., same basis..lb. .068125- .070625
dissolved, 35% tannin, bbls., works..lb. .04575- .0595
tanks, works..lb. .04075- —
ground, 70% tannin, bgs., c.l. lb. .089 - —
l.c.l. ..lb. .0915- —
Quebracho extract prices based on freight and $1 insurance per long ton.
Queen of the meadow root, bgs. lb. .12 - .15


# ORGANIC CHEMICALS

ACETONE
ALLYL ALCOHOL
ALLYL CHLORIDE
SECONDARY BUTYL ALCOHOL
TERTIARY BUTYL ALCOHOL
DIACETONE ALCOHOL
ISOPROPYL ALCOHOL (REFINED 99%)
ISOPROPYL ALCOHOL (REFINED 91%)
ISOPROPYL ETHER
MESITYL OXIDE
METHYL ETHYL KETONE
METHYL ISOBUTYL CARBINOL
(METHYL AMYL ALCOHOL)
METHYL ISOBUTYL KETONE

**SHELL CHEMICAL CORPORATION**

100 BUSH STREET, SAN FRANCISCO 6
500 FIFTH AVENUE, NEW YORK 18

Los Angeles · Houston · Chicago

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Quercitron, crystals, bbls.....lb. .32 - —
extract, bbls., No. 1.....lb. .13 - —
solid, bxs. .....lb. .23 - —
Quicksilver, flasks (76 lbs. net).. flask.101.00 -102.00
Quince seed, bgs.....lb. 1.30 - 1.75
Quinidine,[6] NF V, cryst., cns.oz. No stocks
powd., precip., cns.....oz. No stocks
Sulphate, USP, cns.....oz. No stocks
Quinine,[6] NF, cns., 100 ozs...oz. No stocks
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Asenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs. oz. No stocks
Dihydrobromide, bots., 50 ozs.. oz. No stocks
Citrate, cns., 100 ozs.....oz. No stocks
Ethylcarbonate, USP, cns., 100 ozs..oz No stocks
Ferrocyanide, cns., 100 ozs.oz No stocks
Formate, cns., 100 ozs.....oz. No stocks
Glycerophosphate, cns., 100 ozs. oz. No stocks
Hydrochloride, USP, cns., 100 ozs..oz. .89½- —
Hydrochlorosulphate, cns., 100 ozs..oz. No stocks
Hydriodide, cns., 100 ozs..oz. No stocks
Hypophosphite, cns., 100 ozs.oz. No stocks
Phosphate, NF, cns., 100 ozs.oz. No stocks
Salicylate, NF, cns., 100 ozs., oz. No stocks
Sulphate, USP, cns., 100 ozs.oz. 80½- —
Sulphocarbolate, cns., 100 ozs.. oz. No stocks
Tannate, USP X, cns., 100 ozs. oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF IV, 100 ozs..oz. No stocks
Quinine-urea hydrochloride,[6] USP. cns..oz. No stocks
Quinoline, dms., c.l., works...lb. 24¼- .30

## R

R salt, dry, bbls.....lb. .65 - —
paste, dms.....lb. .52 - —
Raspberries, dried, bls.....lb. 1.75 - 1.80
Red, alizarin laxe, bbls., divd. N. of Tenn. and N. C., E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis...lb. 1.10 - 1.90
Prices ½c. per lb. higher divd. Ala., Fla., Ga., La. (Shreveport, 1½c.); Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.) (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. per lb. higher divd. Pacific Coast prices equaled with Chicago divd. Denver, Pueblo, Salt Lake City, Wichita.
Cadmium lithopone, deep shade, bbls., E. Rockies..lb. 1.00 - —
light shade, bbls., same basis..lb. .85 - —
medium shades, bbls., same basis..lb. .30 - —
Red cadmium lithopone, all shades, in smaller pgks., 5c. per lb. higher.
orange (see Orange). Orange).
Selenide, dark, bbls., works. lb. 2.50 - —
light, same basis.....lb. 2.20 - -
Carmine, No. 40, dms., 100-lb. lots, works..lb. 4.60 - —
smaller lots, same basis..lb. 4.75 - 5.25
Crocus Martis (see Red, purple oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works....lb. 1.35 - —
Firetoner, dom., bbls., works.lb. .85 - —
Red, Indian, dom., pure, bls., Bethlehem, Easton, E. St. Louis, N. Y..lb. .09¼- —
80-85%, bbls., same basis.lb. .09¾- —
imp., English, all shades..lb. .12 - —
Iron oxide, pure, bbls.....lb. .09 - .09¾
reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa.; Copley, O.; Easton, Pa., and E. St. Louis..lb. .08¾- —
80% copperas oxide, bbls., same basis..lb. .085 - .09¼
Lacquer, maroon, bbls., wks. lb. 1.25 - —
Lake C toner, alizarin, bbls., works..lb. .90 - —
Lithol toner, alizarin, lake, bbls., works..lb. .60 - —
Pink, bbls., works.....lb. .20 - .25
Rose lake, bbls., works....lb. .25 - .28
Lithol-rubin toner, alizarin lake, bbls. works..lb. 1.10 - —
Maroon, alizarin lake 25% kgs., works..lb. .40 - —
Cadmium, bbls., works.....lb. 1.10 - —
deep, bbls., same basis..lb. 1.20 - —
Maroon, in smaller pkgs., 5c. per lb. higher.
Mercury oxide, tech., bbls., 10,-000 lbs., works..lb. 2.60 - —
smaller lots, works...lb. 2.62 - —
Metallic, bbls., works.....lb. .62 - —
Oxide (see Red, iron oxide).
Para toner, concent., alizarin lake, kgs., works..lb. .70 - —
Persian (see Orange).
Phloxin toner (see Red, eosin toner).
Phosphotungstic, rhodamine, Y, kgs., works..lb. 4.15 - —
Purple lake, kgs.....lb. 1.00 - —
Scarlet ink toner, kgs., works. lb. .55 Nom.
Red, Spanish oxide, grade 1, c.l., bbls..lb. .04¾- .07¾
Toluidin toner, alizarin lake, kgs., works..lb. 1.05 - —
MNPT maroon toner, kgs., works..lb. 3.25 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb. .11 - —
Venetian, 5%, bbls., wks....lb. .0220- —
10%, bbls., works.....lb. .0245- —
15%, bbls., works.....lb. .0265- —
20%, bbls., works.....lb. .02¾- —
25%, bbls., works.....lb. .03 - —
30%, bbls., works.....lb. .03¼- —
35%, bbls., works.....lb. .0360- —
40%, bbls., works.....lb. .04 - —
Vermilion, Amer., bbls.....lb. .25 - .40
Quicksilver, bbls.....lb. 2.50 - 2.65
Red precipitate, NF, powd., fib. dms..lb. 2.77 - 2.79
Red saunders wood grd., bbls.lb. .35 - —
Resorcinol, tech., dms., works.lb. .64 - .74
USP cryst., dms. frt. alld..lb. 1.60 - —
Rhatany root, bgs.....lb. .13 - .14
Rhubarb, whole, cs.....lb. .70 - .71
powd., bbls.....lb. .80 - .81
Riboflavin, bots.....kilo.200.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif., seller's option. lb. .79 - —
Rochelle salt, gran. powd., bbls., 5,000 lbs., 1 ship't..lb. .35½- —
smaller lots.....lb. .39 - .42
Rose flowers, pale, bls.....lb. .44 - .45
Rosemary flowers, bls.....lb. 1.55 - 1.65
Leaves, Portuguese, bls.....lb. .08½- .09
Spanish, bls.....lb. .12 - .13½
Rosin, gum,[1]—
B, dms., c.l.....100 lbs. 6.67 - 6.70½
D, dms., c.l.....100 lbs. 6.74 - 6.77½
E, dms., c.l.....100 lbs. 7.27 - 7.30½
F, dms., c.l.....100 lbs. 7.37 - 7.40½
G, dms., c.l.....100 lbs. 7.41 - 7.44½
H, dms., c.l.....100 lbs. 7.43 - 7.46½
I, dms., c.l.....100 lbs. 7.43 - 7.46½
K, dms., c.l.....100 lbs. 7.47 - 7.50½
M, dms., c.l.....100 lbs. 7.49 - 7.52½
N, dms., c.l.....100 lbs. 7.63 - 7.66½
W.G., dms., c.l.....100 lbs. 7.90 - 7.93½
W.W., dms., c.l.....100 lbs. 8.17 - 8.20½
X, dms., c.l.....100 lbs. 8.17 - 8.20½
Wood,[1] B (resin), dms., c.l., works..100 lbs. 3.00 - —
FF, dms., c.l., works.100 lbs. 4.50 - —
G, H, I, dms., c.l., works.. 100 lbs. 4.95 - —
K, dms., c.l., works..100 lbs. 5.00 - —
M, dms., c.l., works..100 lbs. 5.05 - —
N, dms., c.l., works..100 lbs. 5.15 - —
WG, dms., c.l., works.100 lbs. 5.25 - —
WW, X, dms., c.l., works.. 100 lbs. 5.40 - —
Rotenone,[1] bbls., works.....lb.10.90 -13.50
extract, liq., dms., works.... per unit. 1.05 - —
powder (see Cube root).
Rottenstone,[2] bgs., c.l., mines.. ton.25.00 - —
l.c.l., mines.....ton.37.50 - —
Rue, bls.....lb. .45 - .50

## S

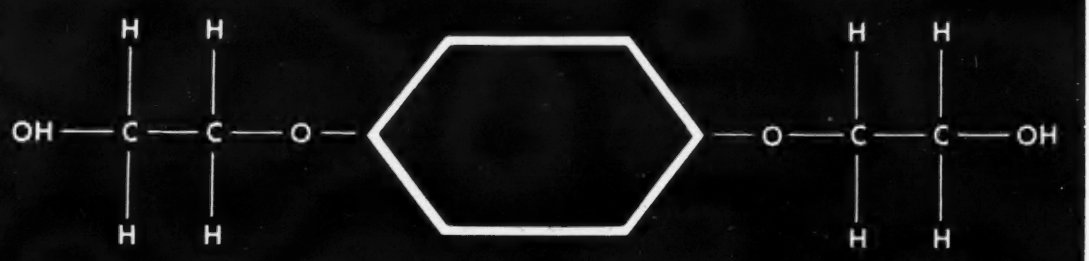
Sabadilla seed, powd., bbls....lb. .45 - .48
Saccharin,[3] soluble and insoluble, 1,000 lbs. and up..lb. 1.30 - 1.35
smaller lots.....lb. 1.40 - 1.60
Saffron, Mexican, bls.....lb. 1.55 - 1.60
Spanish, NF, tins.....lb.42.00 -43.00
not NF, tins.....lb.38.75 -39.00
Safrol, cns.....lb. .90 - .92
Safrol, cns. .....lb. 1.10 - 1.15
Pacific coast..lb. .32 - .33
Sage, Cyprus, good, bls.....lb. .22 - .22½
fair, bls., futures.....lb. .18½- .19
Dalmatian, bls., futures.....lb. .38 - .39
Greek, bls. .....lb. .20 - .20½
Palestine, bls. .....lb. .16 - .16½
Spanish, bls. .....lb. .14½- .15
Washington, Dalmatian-type, bls..lb. .40 - .41
Sago flour, bgs.....lb. No stocks
Salicin, bots., 5 lbs.....lb. No stocks
cns., 25 lbs.....lb. No stocks
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs.....lb. .90 - —
fib. dms.....lb. .92 - .98
Powdered salol, 10c. higher.
Salt, rock, bgs., c.l.....ton.14.20 - —
l.c.l., bgs.....ton.17.20 -18.00
vacuum, common, fine, bgs., c.l..ton.15.70 - —
l.c.l. .....ton.19.00 -23.25
Saltcake, dom., bulk, works..ton.15.00 - —
Chrome (see Chrome cake).
Saltpeter, dbl. ref., gran., bbls., 10 ton lots..100 lbs. 8.20 - —
smaller lots.....100 lbs. 8.35 - 8.60
powd., bbls., 10-20 ton lots.. 100 lbs. 9.20 - —
smaller lots.....100 lbs. 9.35 - 9.60
Sanguinarine nitrate, bots....oz. 3.75 - —
Santonin, cryst., powd., cns.kilo.170.00-185.00
Saponin, No. 1, cns.....lb. 1.75 - 1.90
No. 2, cns.....lb. 1.40 - —
Sarsaparilla root, com., bls..lb. .45 - .50
Honduras, bls.....lb. .45 - .47
Mexican, bls.....lb. .32 - .33
Sassafras bark, ord., bls.....lb. .45 - .50
select, bls.....lb. .65 - .75
Savory, Calif., bls.....lb. .75 - .76
Spanish, bls.....lb. .22 - .22½
Saw palmetto berries, bgs....lb. .20 - .21
Scammony resin, lump, cns...lb. 1.30 - —
powd., cns.....lb. 1.35 - —
Root, bgs.....lb. .09 - .10
Schaeffer's salt, bgs.....lb. .46 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipment..lb. .30¾- —
smaller lots.....lb. .31¼- —
kegs, 5,000 lbs., 1 shipm't..lb. .31¼- —
smaller lots.....lb. .31¾- —
Selenium, pwd., cns., 10 lb. lots.. lb. 1.85 - —
cs., 1,000 lb. lots.....lb. 1.75 - —
Senega root, bls.....lb. 2.50 - 2.60
Senna, Alex., half-leaf, bls....lb. .20 - .21
siftings, bgs.....lb. .18 - .19
Tinnevelly, No. 1, bls.....lb. .18 - .19
2, bls.....lb. .16 - .17
3, bls.....lb. .15 - .16
powd., bbls., bgs.....lb. .16 - .17
Pods, bls.....lb. .13 - .14
Serpentaria root, bls.....lb. 2.25 Nom.
Shellac,[2] bleached, bonedry, bbls., 1,000-lb. lots..lb. .42½- —
Boston .....lb. .43½- —
Chicago .....lb. .44 - —
Pacific coast.....lb. .46 - —
refined, bbls., 1,500-lb. lot. lb. .48½- —
Boston .....lb. .49½- —
Chicago .....lb. .50 - —
Pacific coast.....lb. .52 - —
Bonedry shellac sales of less than 1,500 lbs., at following additions to maximum prices: (1) packed in bgs., ¾c. per lb.; (2) bbls., 1c. more; (3) kgs., 3c. more.
D. C., V.S.O., Diamond I, 100 bgs..lb. .4060- —
Garnet, 100 bgs.....lb. .3840- —


# NEW

# Eastman Hydroquinone Derivative

**Stable reactant may be suitable intermediate for specialty plasticizers, detergents, or wetting agents; also inhibits ultraviolet transmission**

## HYDROQUINONE DI (BETA HYDROXY ETHYL) ETHER




**Molecular Weight: 198**
**M P: 96-100° C**
**Color: White**

**Boiling Points: 1 mm — 185° C**
**5 mm — 205° C**
**10 mm — 221° C**

**Solubility:**

Hydroquinone di (beta hydroxy ethyl) ether is sparingly soluble at room temperature in water, diethyl ether, petroleum ether, benzene, and chloroform. At slightly elevated temperatures, it may readily be dissolved in water, ethyl alcohol, acetone, acetic acid, and ethylene glycol.

**Suggested Uses:**

The ether linkages in hydroquinone di (beta hydroxy ethyl) ether are very stable; therefore, it can be used as a reactant under many varying conditions. It should prove very interesting in the preparation of specialty plasticizers, detergents, and wetting agents. Its ability to absorb ultraviolet light will be an additional advantage for many of these uses.

As a bifunctional alcohol, this hydroquinone derivative can be used in the preparation of poly esters and ethers which will prove very interesting to manufacturers in the general plastic field.

**SAMPLES:** *Research quantities are available free. Please write on your company letterhead.*

# Tennessee Eastman Corporation

**(Subsidiary of Eastman Kodak Company)**

**KINGSPORT, TENNESSEE**

# Tri-Sure LEADERSHIP is your protection

***Tri-Sure Drum Closures are used in more countries, by more companies and for more products than any other closure—proof of their acceptance as the best protection for liquids shipped in drums***

**Tri-Sure Closures have the endorsement of more experienced shippers than any other device ever developed for protecting liquids in metal drums and pails. The reason is that Tri-Sure Closures have demonstrated all over the world, under every condition, that they are the most completely *reliable* safeguard against leakage, seepage, pilferage and substitution. Tri-Sure *leadership* is your *protection*—your assurance that you are using the closure that is rated No. 1 in soundness of engineering and efficiency of performance. Get this protection in every shipment, by specifying "Tri-Sure Closures" in every drum order.**

**Tri-Sure**
**$100.00**
will be paid by the AMERICAN FLANGE & MANUFACTURING CO. INC., to anyone in the U. S. A. or Canada causing arrest and conviction of persons unlawfully removing genuine Tri-Sure closures and seals, with intention of committing a felony. Suitable reward will be paid in other countries
*Guaranty*

***Particulars on Request***

**Tri-Sure**
Reg. U. S. Pat. Off.
**CLOSURES**

AMERICAN FLANGE & MANUFACTURING CO. INC., 30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.
TRI-SURE PRODUCTS LIMITED, ST. CATHARINES, ONTARIO, CANADA

Shellac, superfine, 100 bgs., Boston, N. Y..lb. .3660- —
Chicago .....lb. .3710- —
Pacific coast.....lb. .3960- —
TN, 100 bgs., Boston, N. Y.lb. .3550- —
Chicago .....lb. .3600- —
Pacific coast.....lb. .3805- —
Shellac in cs., 2c. higher. Shellac sales 1 bg. or 1 cs., 5c. additional; 1 to 9 bgs. or cs., 2c. more; 10 to 99 bgs., cs., 1c. more.

Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works..ton.17.00 - —
l.c.l., works.....ton.20.09 - —
400 mesh, bgs., c.l., works..ton.18.00 - —
l.c.l., works.....ton.19.00 -20.00
wet-grd., 325 mesh, bgs., c.l., works..ton.18.00 - —
l.c.l., same basis....ton.21.00 - —
400 mesh, bgs., c.l., works.ton.30.60 - —
l.c.l., works.....ton.35.00 -38.00
90%-95%, 325 mesh, bgs., c.l., wks..ton.20.00 - —
l.c.l., works .....ton.21.50 -23.00
99%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works.....ton.22.00 -25.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works.....ton.15.50 - —
l.c.l., works.....ton.18.50 - —
140 mesh, bgs., c.l., works, ton.11.00 - —
l.c.l., works.....ton.16.00 - —

Silicon tetrachloride, tech., dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- .27

Silver bullion.....oz. .71111- —
Cyanide, cns., 100 ozs.....oz. .41½- —
Nitrate, cns., 100 ozs., bots., 2,500-oz. lots..oz. .47 - —
1,000-oz. lots.....oz. .47¾- —
smaller lots.....oz. .47½- .47¾

Neucleinate, USP, bots., dms.. oz. .35 - .41
Poteinate, USP, bots., dms..oz. .288 - .388

Simarubra bark, bls.....lb. .55 - .60

Skullcap, Eastern, bls.....lb. .60 - .65
Western, bls. .....lb. .30 - .35

Skunk cabbage root, bls.....lb. .45 - .50

Slate flour, bgs., c.l., works.ton.11.00 -12.00
l.c.l., works.....ton.12.00 -13.00

Sloe berries, bgs.....lb. .40 - .41

Smalt, black, ctns.....lb. .05 - .06
Blue, ctns.....lb. .07 - .05½

Snakeroot, Canada, bls.....lb. .65 - .70

Soapbark, bls.....lb. .29 - .30
crushed, bls., bbls.....lb. .34 - .35
cut, dom., bls., bbls.....lb. .34 - .35
imp., bbls.....lb. No stocks
powd., bbls.....lb. .32 - .33

Soda acetate, anhyd., dms., dlvd. lb. .05½- .10
NF, cryst., bbls., kgs.....lb. .14 - .16
tech., 60%, l.c.l., dlvd.....lb. .05½- .06

Alginate, refined, water-soluble, bbls., works..lb. .70 - —
semi-refined, bbls., works..lb. .42 - —
white, powd., dms.....lb. 1.50 - 1.60

Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.50 - —
l.c.l., works.....100 lbs. 8.40 - —

other uses, bgs., c.l., works.. 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.50 - 8.00

Antimonate, bbls., dlvd.....lb. .16 - .16½

Arsenate, dms., dealers, c.l, works..lb. .09½- —
l.c.l., works.....lb. .10¾- .11¼

Soda arsenite, gray, dms., dealers, c.l., works..lb. .06¼- —
l.c.l., works.....lb. .09 - .10

Soda arsenite, gray, ¾c. higher in Chi.; 2c. higher in Houston, Tex., and Palo Alto, Calif.

Ash, dense, 58%, bgs., c.l., works..100 lbs. 1.15 - —
l.c.l., dlvd., zone 1.... 100 lbs. 2.18 - —
2 .....100 lbs. 2.33 - —
3 .....100 lbs. 2.53 - —
4 .....100 lbs. 2.98 - —
bbls., c.l., wrks, Zone 1.. 100 lbs. 1.35 - —
l.c.l., Zone 1.....100 lbs. 1.35 - —
2 .....100 lbs. 2.50 - —
3 .....100 lbs. 2.75 - —
4 .....100 lbs. 3.15 - —
bulk, c.l., works...100 lbs. .95 - —
extra light, 58%, bgs., c.l.. 100 lbs. 1.18 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.15 - —
2 .....100 lbs. 2.28 - —
3 .....100 lbs. 2.53 - —
4 .....100 lbs. 2.98 - —
bbls., c.l., works..100 lbs. 1.45 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.45 - —
2 .....100 lbs. 2.60 - —
3 .....100 lbs. 2.85 - —
4 .....100 lbs. 3.28 - —
bulk, c.l.....100 lbs. .90 - —
light, 58%, bgs., c.l., works.. 100 lbs. 1.05 - 1.18
l.c.l., dlvd., zone 1..... 100 lbs. 2.13 - —
2 .....100 lbs. 2.28 - —
3 .....100 lbs. 2.53 - —
4 .....100 lbs. 2.98 - —

Soda ash, light 58%, bbls., c.l., works..100 lbs. 1.86 - —
l.c.l., dlvd., zone 1..... 100 lbs. 2.35 - —
2 .....100 lbs. 2.50 - —
3 .....100 lbs. 2.75 - —
4 .....100 lbs. 3.15 - —
bulk, c.l.....100 lbs. .90 - —
Soda ash sales zones are:—(1) All States E. of Miss. R. and N. of south bound. of Ky. and Va.; also Ala., La., and Miss., S. of 31°, Tex. E. of 100°, S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark., E. of 98° Gts.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 98°, Kans., Neb., W. of 98°, N. D., Okla., S. D., Tex. W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

Benzoate, tech., bbls., 2 tons or more..lb. .39 - —
smaller lots.....lb. .40 - .41
USP, dms., 2 tons or more.lb. .46 - —
smaller lots.....lb. .47 - .52

Bicarbonate, tech., bgs., c.l., works..100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.90 - —
USP, gran., bgs., c.l., works.. 100 lbs. 2.10 - —
l.c.l. .....100 lbs. 2.45 - —

Bichromate,[1] bgs., c.l., works. lb. .07¾- —
l.c.l., works.....lb. .07¾- .08½
Soda bichromate, in bbls., ¼c. higher.

Bifluoride, bbls., c.l., frt. alld. lb. 11½- —
l.c.l., same basis.....lb. .12 - .14
kgs., same basis.....lb. .13½- .14

Bisulphite, powd., bbls., c.l., works..100 lbs. 3.00 - 3.10
l.c.l., works.....100 lbs. 3.50 - 3.60
solut., 32°, bbls., c.l., works, 100 lbs. 1.30 - —
l.c.l., works.....100 lbs. 1.55 - —
30° bbls., c.l., works..100 lbs. 1.35 - —
l.c.l., works.....100 lbs. 1.60 - —
35°, bbls., c.l., works.100 lbs. 1.40 - —
l.c.l., works.....100 lbs. 1.65 - —
40°, bbls., c.l., works.100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - —

Bromide, USP, gran., bbls., 500 lbs., works..lb. 25 - —
fiber dms., 100 lbs., works, lb. .26 - —

Cacodylate, bots., dms.....lb. 8.50 -10.50

Carbonate (see Soda ash, Soda monohydrate Soda sal).

Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 2.70 - —
l.c.l., Zone 1, dlvd.100 lbs. 3.55 - —
2, dlvd.....100 lbs. 3.70 - 5.05
3, dlvd.....100 lbs. 3.95 - 5.30
4, dlvd.....100 lbs. 4.35 - 5.70
liquid, 47-49%, buyer's tanks, works..100 lbs. 1.92½- —
seller's tanks, works, 100 lbs. 1.95 - —
70%, buyer's tanks, works, 100 lbs. 1.97½- —
seller's tanks, works, 100 lbs. 2.00 - —
solid, 76%, dms., c.l., works. 100 lbs. 2.30 - —
l.c.l., zone 1, dlvd..100 lbs. 3.15 - —
2, dlvd.....100 lbs. 3.30 - —
3, dlvd.....100 lbs. 3.55 - —
4, dlvd.....100 lbs. 3.95 - —
Caustic soda zones are same as soda ash.

Chlorate, cryst., bgs., c.l., works..lb. .06¼- —
l.c.l., works.....lb. .06½- —
powd., kgs., c.l., works.....lb. .06½- —
l.c.l., works.....lb. .07 - .08½
Chloride (see Salt).

Chromate,[1] bbls., cks., c.l., works, frt. equald..lb. .09¼- —
l.c.l., works, frt. equal..lb. .09¼- .09¾
Soda chromate in bgs. is ½c. less.

Citrate, USP VIII, bbls.....lb. .18½- —
dms. .....lb. .19½- .23½
USP XII, gran., bbls.....lb. .24 - —
dms. .....lb. .25 - .29
powd., bbls.....lb. .24½- —
dms. .....lb. .25½- .29½

Cyanido, 96-98%, dms.....lb. .14½- .15

Diacetate, 33-35% acidity, bbls., dlvd..lb. .09½- .10½
anhydrous, dms., dlvd.....lb. .12½- —

Fluoride, white, 90%, bbls., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
95%, bbls., c.l., works...lb. .07½- —
l.c.l., works.....lb. .08½- —
Soda fluoride prices at Los Angeles are f.a.s. works.

Formate, bgs., c.l., works..lb. .0655- —
l.c.l., works.....lb. .068 - —
Glutamate, monobasic, kgs..lb. 1.04 - 1.06
Glycerophosphate, NF, crys., bbls..100 lbs. 1.25 - —
dms. .....lb. 1.40 - —
powder, 5c. higher.
solution, 50%, cbys., cns...lb. .82 - .90

Hydrosulphite, dms., c.l., frt. alld..lb. .10½- —
l.c.l., frt. alld.....lb. .13 - —
Hydroxide, USP, sticks, dms.lb. .24 - .25
tech. (see Soda caustic).
Hypophosphite, NF, cns.....lb. .67 - .70

Hyposulphite, cryst., bgs., c.l., works, frt. equald..... 100 lbs. 2.25 - —
l.c.l., same basis...100 lbs. 2.50 - —
pea, cryst., bgs., c.l., works.. 100 lbs. 2.60 - —
Soda, hyposulphite, crystals, in bbls., 20c. higher; pea crystals, dms., 50c. higher.
USP, cryst., bbls.....lb. .10 - .12

Iodate, dms., jars.....lb. 5.40 - 5.48
Iodide, bots.....lb. 2.53 - 2.67
dms., jars.....lb. 2.42 - —
Mandelate, dms.....lb. 3.25 - 3.35
Metaborate, gran., bbls., c.l., dlvd..lb. .0485- —
l.c.l., N. Y., or Chi....lb. .051 - —
bgs., c.l., dlvd.....lb. .0485- —
l.c.l., N. Y., or Chi....lb. .046 - —
Metanilate, bgs.....lb. .40 - —
Metasilicate, anhyd., dms., c.l., works, frt. equald.... 100 lbs. 4.00 - —
l.c.l., same basis...100 lbs. 4.90 - 5.20
gran., bbls., c.l., works, frt. equald..100 lbs. 2.50 - —
l.c.l., dlvd.....100 lbs. 3.30 - 3.55
Methylate, bots., works.....lb. 1.00 - —
cns., works.....lb. .55 - .60
dms., works.....lb. .45 - .60
Molybdate[1], anhyd., kgs., works, lb. .47 - —
Monohydrate, bgs., c.l..100 lbs. 2.90 - —
works .....100 lbs. 2.45 - —
Naphthionate, bbls.....lb. .50 - —
Nitrate, crude, dms., 100-lb. bulk, c.l., works.....ton.27.00 - —
refd, gran., bbls., 10 tons.. 100 lbs. 3.60 - —
smaller lots.....100 lbs. 3.75 - 4.00

# Chemicals FOR INDUSTRY

Stauffer CHEMICALS SINCE 1885

Stauffer manufactures a long list of industrial chemicals in more than a dozen plants strategically located throughout the United States—chemicals for consumption by every conceivable industry. Wherever your plant is located, Stauffer can supply you promptly and efficiently with industrial chemicals that have proven consistently dependable for over sixty years.

STAUFFER PRODUCTS

| | | |
|---|---|---|
| *Aluminum Sulphate | Citric Acid | Sulphur Chloride |
| Borax | *Copperas | Sulphuric Acid |
| Boric Acid | Cream of Tartar | *Superphosphate |
| Carbon Bisulphide | Muriatic Acid | Tartar Emetic |
| Carbon Tetrachloride | Nitric Acid | Tartaric Acid |
| Caustic Soda | Silicon Tetrachloride | Textile Stripper |
| Chlorine | Sodium Hydrosulphide | Titanium Tetrachloride |
| | Sulphur | |

(*Items marked with star are sold on West Coast only.)

420 Lexington Avenue, New York 17, N.Y.
221 N. La Salle Street, Chicago 1, Illinois
636 California Street, San Francisco 8, Cal.
555 South Flower St., Los Angeles 13, Cal.
424 Ohio Bldg., Akron 8, O.—Apopka, Fla.
North Portland, Oregon—Houston 2, Texas

STAUFFER CHEMICAL COMPANY

Soda nitrate, imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse. ton.33.00 - —
200-lb. bgs., same basis. ton.32.40 - —
bulk, same basis.....ton.30.00 - —
Nitrite, 96-98%, bbls., c.l., works, frt. equald..lb. .06¾- —
west coast ports..100 lbs. 3.00 - 3.05
l.c.l., dlvd.....100 lbs. 3.90 -11.90
Orthosilicate, anhyd., dms., c.l., works, frt. equald. 100 lbs. 4.60 - —
l.c.l., same basis..100 lbs. 5.45 - 5.80
flake, dms., c.l., works.100 lbs. 3.10 - —
l.c.l., dlvd.....100 lbs. 4.30 - 4.55
Oxalate, neut., bgs., works..lb. .10 - —
Pantothenate, dextrorotary, 100-gram bots..per gram. .10 - —
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .18
powd., bgs., c.l., works, frt. equald..lb. .16 - .16½
l.c.l., works, frt. equald.lb. .17 - —
kgs., l.c.l., works, frt. equald..lb. .19 - —
Perborate, NF, bbls., c.l., wks. lb. .14¾- —
l.c.l., works.....lb. .15½- —
Peroxide, dms., c.l., dlvd. E. of Miss..lb. .14 - —
smaller lots.....lb. .17 - —
Phosphate, dibasic, tech., anhyd., bgs., c.l., works, 100 lbs. 6.00 - 6.30
l.c.l., works....100 lbs. 6.40 - 6.75
cryst., bgs., c.l., works.. 100 lbs. 2.65 - 2.70
l.c.l., works....100 lbs. 2.95 - 3.45
USP XII, dried, bbls., dms., works..lb. .159 - —
monobasic, anhydrous, bgs., c.l., works..100 lbs. 7.25 - 8.25
l.c.l., works.....100 lbs. 7.65 - 9.00
tribasic, anhydrous, bgs., c.l., works, frt. equald..... 100 lbs. 6.00 - 6.95
l.c.l., same basis.100 lbs. 6.50 - 7.00
cryst., bgs., c.l., works.... 100 lbs. 2.70 - —
l.c.l., same basis..100 lbs. 3.10 - —
kgs., c.l., works...100 lbs. 3.40 - —
l.c.l., works....100 lbs. 3.80 - —
Soda phosphate in bbls. 20c. higher.
USP (see Sodium phosphate, dibasic).
Prussiate, yellow, bgs.....lb. .10¾- —
bbls.....lb. .11 - —
Pyrophosphate, ferric, dms., 10,000 lbs., works..lb. .22 - —
smaller lots, works.....lb. .23½- —
tetra-basic, anhydrous, bgs., c.l., works, frt. equald.. 100 lbs. 5.25 - —
l.c.l., same basis.100 lbs. 5.40 - 5.75
Ricinoleate, tech., bbls.....lb. .12 - —
Sal, bgs.....100 lbs. 1.35 - —
works.....100 lbs. 1.10 - —
bbls.....100 lbs. 1.40 - —
works.....100 lbs. 1.20 - —
Salicylate, dms.....lb. .52 - .54
Sesquicarbonate, bgs., c.l., wks. 100 lbs. 1.50 - —
bbls., c.l., works.....100 lbs. 1.70 - —
l.c.l., zone 1, dlvd....100 lbs. 2.70 - —
2, dlvd.....100 lbs. 2.85 - —
3, dlvd.....100 lbs. 3.10 - —
4, dlvd.....100 lbs. 3.50 - —
Soda sesquicarbonate l.c.l. price zones are same as these for soda ash.
Sesquisilicate, dms., c.l., works. 100 lbs. 3.05 - —
l.c.l., dlvd.....100 lbs. 4.30 - 4.45
Silicate, 40°, turbid, dms., c.l., works..100 lbs. .50 - —
l.c.l., works.....100 lbs. 1.05 - 1.20
tanks, works.....ton.13.00 - —
52°, turbid, dms., c.l., works, 100 lbs. 1.40 - —
l.c.l., works.....100 lbs. 1.65 - 1.80
tanks, works.....ton.25.00 - —
Silicofluoride, bbls., c.l., works. lb. .06½- .07
l.c.l., works.....lb. .07 - .07½
Stannate, dms., works, frt. alld. E..lb. .32½- .36½
Stearate, bbls., works.....lb. .19 - .24
Sulphate, NF, dried, powd., bbls..lb. .07 - .07¼
tech., anhyd., bgs., c.l., wks. 100 lbs. 1.70 - —
l.c.l., works.....100 lbs. 1.95 - 2.20
cryst. (see Glauber's salt).
USP, cryst., gran., bbls....lb. .07 - .10
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.40 - —
l.c.l., dlvd.....100 lbs. 2.90 - 3.15
solid, bbls., c.l., works.100 lbs. 2.15 - —
l.c.l., dlvd.....100 lbs. 2.65 - 2.90
Sulphite, cryst., bgs., c.l., works..100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - —
bbls., c.l., works.....100 lbs. 2.30 - —
l.c.l., works.....100 lbs. 2.55 - —
powd., bbls., c.l., works.... 100 lbs. 5.25 - —
l.c.l., works.....100 lbs. 5.50 - 6.00
Sulphocarbolate, USP IX, gran., bbls., dms..lb. .28 - .33
powd., bbls.....lb. .30 - .35
Sulphocyanide, CP, dms.....lb. .55 - .65
Sulphohydrate, liquid, 85%, dms., c.l., works, 100% basis. lb. .06 - —
l.c.l., works.....lb. .08 - —
liquid, 85%, tanks, 100% basis, works..lb. .08¾- —
flake, 70-72%, dms., c.l., works..lb. .04½- —
l.c.l., works.....lb. .05 - —
Sulphoricinoleate, bbls.....lb. .12 - —
Thiocyanate (see Soda, sulphocyanide).
Thiosulphate (see Soda hyposulphite).
Tungstate,[1,6] tech., kgs.....lb. 1.35 - 1.50
Soda-ammonia phosphate, bbls., works, frt. equid.....lb. .28 - —
Soda-cinchophen, bots., dms., works..lb. 3.75 - 3.85
Soda-formaldehyde sulphoxalate, stand. cont. 125-250 lbs...lb. .19 - .22
Soda-sulphadiazin, USP, dms., works..lb.10.50 -10.60
Soda-sulphamerazin, dms., works. lb.10.50 -10.60
Soda-sulphapyridine, powd., bots., dms., works..lb. 5.00 - 5.30
Soda-sulphathiazole, USP, dms., works..lb. 2.50 - 2.80
Solvent naphtha, dms., wks..gal. .31 - —
tanks, E. of Omaha, frt. alld. gal. .26 - —
Minnequa, Colo.....gal. .26 - —
high-flash, dms., works...gal. .32 - —
tanks, frt. alld. E. of Omaha to 2c. per gal..gal. .27 - —
wire enamel, ret. dms., c.l., frt. equalized..gal. .27 - —
l.c.l., same basis....gal. .30 - —
tanks, works.....gal. .22 - —
Sorbitol, com'l, dms., c.l., works. lb. .16¾- —
l.c.l., works.....lb. .17¾- —
Soybean meal,[1,7] 41%, bulk, c.l., Decatur..ton.59.00 - —
Protein, alpha, bgs., 40,000 lbs., works..lb. .20 - —
20,000 lbs., works.....lb. .20¼- —
smaller lots, works.....lb. .20½- .24
Sparteine sulphate, bots., cns..oz. 2.25 - 2.95
Spearmint leaves, bls.....lb. .48 - .49
Spikenard root, bls.....lb. .48 - .55

Spruce extract, liq., reg., bbls., c.l., works..lb. .02½- —
tanks, works.....lb. .01½- —
pwd., super, bgs., c.l., wks.lb. .04½- —
Squaw vine, bls.....lb. .53 - .55
Squill, red, fortified, powd., bbls., bxs..lb. 1.60 - —
White, bls.....lb. .10 - .12
powd., bbls., bxs.....lb. .16 - .20
St. Ignatius beans, bgs.....lb. No stocks
St. John's bread, edible, bls...lb. .10¾- .11¼
Starch, corn, pearl, bgs..100 lbs. 4.08 - —
Chicago .....100 lbs. 3.72 - —
powd., bgs.....100 lbs. 4.19 - —
Chicago .....100 lbs. 3.83 - —
Potato, bgs., c.l.....lb. .15 - .15½
l.c.l.....lb. .15¾- .16
Rice, bgs., c.l.....lb. No stocks
Sweetpotato, bgs.....lb. No stocks
Wheat, thick boil, bgs.....lb. .05 - —
Starch, iodide, bots.....lb. 1.87 - —
Stearin, oleo (see Oleostearin)
Stillingia root, bls.....lb. No stocks
Stoneroot, bls.....lb. .07½- .08
Storax, cs.....lb. 1.10 - 1.15
Stramonium leaves, bgs.....lb. .21 - .22
Seed, bgs.....lb. .20 - .21
Strontium bromide, cns., dms.lb. .52 - .55
Carbonate, 90%, bbls.....lb. .14 - .16
98%, bbls.....lb. .23 - .26
Chloride, tech., bbls.....lb. .22 - .24
mesh 90%, bbls., works..ton.58.00 - —
Chromate, bbls., kgs., Phila.lb. .35 - .37
Iodide, bots.....lb. 3.06 - 3.15
jars, 25 lbs.....lb. 3.00 - —
Lactate, dms.....lb. 1.30 - 1.35
Nitrate, bbls., c.l., works....lb. .07¾- —
l.c.l., works.....lb. .08¼- .08¾
Oxalate, bbls., works.....lb. .38 - .40
Salicylate, NF, dms.....lb. 1.10 - 1.15
Sulphate, nat., air-floated, 325 mesh 90%, bbls., works..ton.58.00 - —

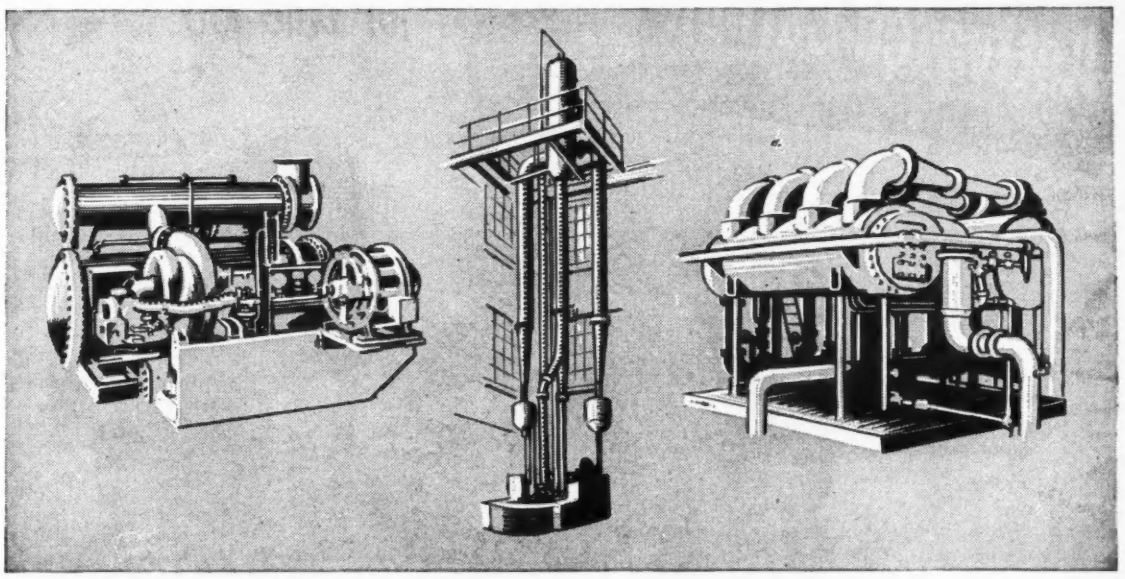
Strontium-calcium sulphide, phosphorescent, dms., works..lb. 2.50 - 2.85
Strophanthin, bots.....oz.30.00 -50.00
Strophanthus seed, Kombe, bgs., lb. 2.40 - 2.45
Strychnine, NF, powd., cns., 100 ozs..oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs..oz. 1.00 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .45 - —
tech., bbls., l.c.l., works...lb. .40 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphadiazine, USP, dms., works. lb. 9.00 - 9.10
Sulphaguanidin, dms., works..lb. 4.50 - 4.60
Sulphamerazin, dms., works...lb. 9.00 - 9.10
Sulphanilamide, USP, powd., bots., works..lb. 9.00 - 9.10
fib. dms., works.....lb. 1.05 - 1.25
Sulphanilamide, 30-60 mesh 10c. higher
Sulphapyridin, powd., bots., tins., works..lb. 5.00 - 5.30
Sulphathiazole, USP, powd., dms., works..lb. 2.50 - 2.80
Sulphonethylmethane, kgs.....lb. 6.75 - 6.85
Sulphonmethane, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton.16.00 - —
vessels, Gulf ports, contract..long ton.17.50 - —
flour, comm'l, 99½%, bgs., c.l., works..10% lbs. 1.65 - —
l.c.l., works.....100 lbs. 2.00 - 2.11
precipitated, USP, bbls., kgs., lb. .18 - .30
refined, flour, extra fine, bgs., c.l., works..100 lbs. 2.90 - —
l.c.l., works.....100 lbs. 3.25 - 3.40
heavy, bgs., c.l., works..... 100 lbs. 2.60 - —
l.c.l., works.....100 lbs. 2.95 - 3.10

Sulphur, refined, light, bgs., c.l., works..100 lbs. 2.70 - —
l.c.l., works.....100 lbs. 3.05 - 3.20
flowers, USP, bgs., c.l., works. 100 lbs. 3.05 - —
l.c.l., works.....100 lbs. 3.40 - 3.55
Refined sulphur flowers in bbls., 35c. higher.
rock, bbls., c.l., works.100 lbs. 2.20 - —
l.c.l., works.....100 lbs. 2.55 - 2.70
roll, bbls., c.l., works.100 lbs. 2.40 - —
l.c.l., works.....100 lbs. 2.75 - 2.90
rubbermakers', bgs., c.l., wks. 100 lbs. 1.85 - —
Chloride, 35-gal. dms., c.l., works..lb. .03 - .03½
l.c.l., works.....lb. .04 - .04½
10-gal. dms., c.l., works...lb. .07 - .07½
l.c.l.....lb. .08 - .08½
Dioxide, liquid, com'l, cyls., c.l., works..lb. .07 - —
l.c.l.....lb. .08 - —
multi-unit cars, works..lb. .04½- .05
tanks, works.....lb. .04 - —
refrigeration, cyls., l.c.l., works..lb. .16 - .21
Iodide, bots., jars.....lb. 3.90 - 4.11
Sumac extract, No. 1, bbls....lb. .10½- —
No. 2, bbls.....lb. .09 - —
crystals, bbls.....lb. .40 - —
stainless, bbls.....lb. .11 - .13½
Superphosphate,[1] pulverized, run-of-pile under 22% a.p.a., bulk, production points, Balto..unit-ton. .65 - —
Florida .....unit-ton. .51 - .54
others .....unit-ton. .97 - .94

Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 85½c. per unit-ton plus frt. charge from Anaconda, Mont., in excess of $3.08 per ton; guaranteed 18, 19 or 20% a.p.a., ½c. per unit-ton higher.


# Mutual Bichromates

## COMBAT REFRIGERATION CORROSION



Mutual Bichromates have been used for many years to inhibit corrosion in refrigeration systems as the brines in refrigeration systems cause severe corrosion unless the proper precautions are taken. Mutual Bichromates are the ideal preventive because no other chemicals have exhibited so powerful an inhibitive influence on ferrous surfaces.

For calcium chloride brines, refrigerating engineers recommend the addition of 100 pounds of sodium bichromate for each 1,000 cubic feet of brine. Sufficient sodium hydroxide is added to convert the bichromate to the normal chromate. For neutral brines, this amounts to about 27 pounds of caustic soda per 100 pounds of bichromate. For calcium-magnesium chloride or sodium chloride brines, 200 pounds of bichromate, with the corresponding amounts of caustic soda, should be used per 1,000 cubic feet of brine.

Mutual Bichromates are preferred by refrigeration engineers because of their dependable uniformity and constant quality. Shipments are made from our two complete plants and from dealers' warehouses all over the country. Fill out the coupon below for your copy of "Corrosion Control in the Refrigeration Industry."

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- ☐ Anodizing Aluminum by the Chromic Acid Process
- ☐ Dyeing Chromic Acid Anodized Aluminum—Black Finishes
- ☐ Dyeing Chromic Acid Anodized Aluminum—Colored Finishes
- ☐ Chromate Corrosion Inhibitors in Bimetallic Systems
- ☐ Chromate Corrosion Inhibitors for Internal Combustion Engines
- ☐ Corrosion Control in the Refrigeration Industry

*Name* .....

*Company* .....

*Address* .....

Superphosphate, triple, 48% or more, a.p.a., bulk, producing points, Florida... unit-ton. .63 - —
South Carolina..unit-ton. .70 - —
Tennessee .....unit-ton. .75 - —

Other States and D.C., 62c. per unit-ton plus frt. charge for 48% from E. Tampa, Fla.

Superphosphate, gran., 2c. per unit-ton higher than pulverized.

Sweet basil, bls.....lb. 1.00 - 1.25

# T

Talc,[1] dom., ordinary, grd., bgs., c.l., works..ton.14.50 -24.50
l.c.l., works.....ton.16.50 -30.00
Calif., bgs., c.l., wks.ton.17.50 -43.00
Pennsylvania, bgs., c.l., works..ton.11.00 -13.50
l.c.l., works.....ton.12.00 -14.50
Vermont, bgs., c.l., works. ton.14.00 - —
l.c.l., works.....ton.15.00 - —
fibrous, grd., coarse, off-color, New York, bgs., c.l., works..ton.13.00 - —
fine, New York, 325 mesh, 92-94%, bgs., c.l., works. ton.13.00 -18.00
98 - 99.5%, bgs., c.l., works..ton.15.25 -19.25
99.85 - 99.95%, bgs., c.l., works..ton.17.00 -21.00
imp. Canada, bgs., c.l.....ton.24.00 -30.00

Tallow,[1,7] edible, tanks.....lb. .09¾- —
inedible, extra, loose.....lb. .08¾- —
special, loose.....lb. .08½- —
sulphonated, 50% (42% fat), dms., c.l..lb. .07 - .07½
(70% fat), dms., c.l.....lb. .10 - .10½
Tallow, sulphonated, l.c.l., ½c. higher.

Tamarind, bbls.....lb. .13 - .14

Tankage,[1,7] animal, feed grd., 9-11% ammon., bulk, unit-ton. 5.53 + 7.50
Chicago .....unit-ton. 5.53 + 7.50
fert. grd., 9% ammon., 10% b.p.l., bulk..unit-ton. 4.00 & .10
10-11% ammon., 15% b.p.l., bulk, Chicago..unit-ton. 4.00 & .10

Tapioca flour,[1,5] bgs.....lb. .07 - .07¼
Java, bgs.....lb. No stocks

Tar acid oil, 15-18%, dms., c.l., works..gal. .26½- .30½
l.c.l., works.....gal. .28½- .32½
25%, dms., c.l., works...gal. .30 - .35½
l.c.l., works.....gal. .32 - .37½

Tar, pine (see Pinetar).

Tara[1] pods, c.l., ex dock U. S. ports..long ton.87.25 - —
powd., c.l., same basis.... long ton.125.00 - —

Tarragon herb, bgs.....lb. .60 - .65
Leaves, bgs.....lb. 1.20 - 1.25

Tartar emetic, tech., gran. or powd., bbls., kgs..lb. .47¾- .48
dms. .....lb. .48½- .51
USP, powd., bbls., dms., kgs. lb. .52¾- .56

Terpin hydrate, com'l, bbls., c.l. lb. .24½- —
l.c.l. .....lb. .25 - .25½
USP, cryst., bbls., dms....lb. .70 - .75
powd., bbls., dms.....lb. .75 - .80

Terpineol, alpha (see A).
com'l, dms., c.l., South.....lb. .13½- —
l.c.l., South.....lb. .14 - —
tanks, South.....lb. .13 - —
pure, dms.....lb. .34 - .50

Terpinglycol ether, dms. (extra), c.l., works..lb. .19½- —
l.c.l., works.....lb. .20 - —
tanks, works.....lb. .19 - —

Terpinyl acetate, extra, cns., dms..lb. .80 - .87
prime, cns., dms.....lb. 63 - .70

Terra alba (see Gypsum).

Tetrachloroethane, dms., works, lb. .08 - .09½

Tetrachloroethylene, NF VI, 55-gal. dms., works..lb. .20 - .21½
smaller dms., works.....lb. .23½- .25½
tech. (see Perchloroethylene).

Tetralin, dms.....lb. .19 - —

Tetrasodium pyrophosphate (see Soda pyrophosphate).

Thallium sulphate, 90%, bots., works..lb.12.50 Nom.

Theobromine, dms., 25-lb. lots.. lb. 3.75 - —
smaller lots.....lb. 3.95 - 4.10

Thiamine hydrochloride, dms., 100 grams or more..kilo.160.00 - —

Thiocarbanilide, dms.....lb. .24 - —
Thiouracil, dms., works.....lb. 5.50 - 5.60
Thiourea, CP, dms.....lb. .55 - .56

Thorium nitrate, cs., works...lb. 2.00 - —

Thyme, French, bgs., futures..lb. 16½- .17
Spanish, bls. .....lb. .14½- .14¾

Thymol, cns.....lb. 2.40 - 2.75
Iodide, dms.....lb. 3.40 - 3.80

Timbo root (see Cube root).

Tin chloride,[9] anhydrous.....lb. No stocks
crystals,[9] bgs., bbls.....lb. No stocks
Metal,[10] .....lb. .52 - —
Bolivian .....lb. .63½- —
Straits .....lb. No stocks
Oxide,[1,9] bbls.....lb. .54 - .55
Tetrachloride,[4] anhyd., dms., works..lb. .31 - .33

Titanium dioxide,[1,4] chalk resistant, bgs., c.l., dlvd..lb. .15 - —
l.c.l., dlvd.....lb. .15½- .16¾
nonchalking,[1,4] bgs., c.l., dlvd. E..lb. .16¾- —
l.c.l., dlvd.....lb. .16¾- .17¾
plain, bgs., c.l., dlvd.....lb. .14½- —
l.c.l., dlvd.....lb. .14¾- .15½
Hydride, cns., works.....lb. 7.00 - 8.00

Titanium pigment, barium base,[1,4] bgs., c.l., dlvd..lb. .05¾- —
l.c.l., dlvd.....lb. .06 - —
Calcium base,[1,4] bgs., c.l., dlvd..lb. .05½- —
l.c.l., dlvd.....lb. .05¾- —
Calcium-rutile base,[1,4] bgs., c.l., dlvd..lb. .05½- —
l.c.l., dlvd.....lb. .05¾- —
Magnesium base,[1,4] dlvd....lb. .05¾- —
l.c.l., dlvd.....lb. .06 - —
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse., ¼c. higher.

Tetrachloride, CP, 55-gal. dms., works..lb. .57 - —
smaller pkgs., works.....lb. .65 - 1.22
technical, 55-gal. dms., works. lb. .32 - —
smaller pkgs., works.....lb. .40 - 1.00

Tolu balsam, cns.....lb. 2.50 - 2.60

Toluene (see Toluol).

Toluidin base, distilled, kgs...lb. .96 - —

Toluol (toluene), coaltar, 2°, indust., dms., return, wks. gal. .32 - —
tanks, E. of Omaha, frt. alld..gal. .27 - —
West Minnequa, Colo..gal. .27 - —
1°, nitration, ret. dms., works. gal. .32 - —
tanks, E. of Omaha, frt. alld..gal. .27 - —
West Minnequa, Colo..gal. .27 - —
Petroleum toluol prices, same as those for coaltar toluol.

Tonga, 50% bark and vine, bbls. lb. .90 - .91

Tonka beans, Angostura, cks..lb. 1.60 - 1.70
Brazilian, Surinam, cs....lb. .90 - .96

Totaquine,[1,6] USP XII, 100-ozs. lots..oz. .52 - —

Triacetin, dms., works.....lb. .28 - .32

Triamylamine, dms., c.l., works. lb. .98 - —
l.c.l. .....lb. 1.01 - —

Tributyl citrate, dms.....lb. .29 - .31
smaller pkgs.....lb. .34 - .40
Phosphate, cns., l.c.l., dlvd..lb. .53 - .55
dms., l.c.l., dlvd.....lb. .49 - —

Tributylamine, dms., c.l., works. lb. .78 - —
l.c.l., works.....lb. .81 - —

Trichlorobenzene, dms., c.l., frt. alld..lb. .06 - —
l.c.l., frt. alld.....lb. .06½- —
tanks, frt. alld.....lb. .07½- —

Trichloroethane, dms., c.l., works. lb. .15 - —
l.c.l., works.....lb. .17 - —

Trichloroethylene, dms., c.l., Zone 1, works, frt. alld..lb. .08 - —
Zone 2, frt. alld.....lb. .08½- —
Zone 3, frt. alld.....lb. .09 - —
Zone 4, ex whse.....lb. .09 - —
Trichloroethylene, l.c.l., prices, ¼c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricresyl phosphate, tech., cns., works..lb. .28 - .39½
dms., c.l., dlvd.....lb. .25 - —
l.c.l., dlvd.....lb. .25½- —
tanks, dlvd.....lb. .24 - —

Triethanolamine, dms., c.l., frt. alld. in E..lb. .19½- —
l.c.l., same basis.....lb. .20½- —
tanks, same basis.....lb. .18½- —

Triethyl phosphate, cns.....lb. .40 - —

Triethylamine, dms., c.l., works, basis 100%..lb. .34 - —
l.c.l., works, basis 100%....lb. .36 - —
tanks, works, basis 100%....lb. .30 - —

Triethyleneglycol, dms., c.l., frt. alld. in E..lb. .18½- —
l.c.l., same basis.....lb. .19½- —
tanks, same basis.....lb. .17½- —

Trimethylamine, dms., c.l., dlvd. lb. .85 - —
l.c.l., dlvd.....lb. .90 - —

Trimethylolpropane, bbls.....lb. .65 - —

Triphenyl phosphate, bbls., c.l., frt. alld..lb. .21 - —
l.c.l., same basis.....lb. .22 - —

Tripoli,[1] air-floated, bgs., c.l., works..ton.21.50 - —
double-grd., bgs., c.l., works.. ton.17.50 - —
once-grd., bgs., c.l., works.ton.16.00 - —

Trisodium phosphate (see Soda phosphate tribasic).

Tuba root (see Cube root).

Tungsten metal, powd., 99-99.7%, dms., works..lb. 2.60 - 5.40
Oxide, kgs.....lb. No prices

Turmeric root, Alleppey, bls., futures..lb. .18½- .19
Haitian, bls., futures.....lb. 15½- .16
Jamaica, futures, bls.....lb. .16¾- .16¾
Madras, bgs. .....lb. .17¾- .17¾

Turpentine, gum, ret. dms., c.l. gal. .93½- —
l.c.l. .....gal. .94½- —
tanks, Savannah.....gal. .83½- —
wood,[1] d.d., dms., East....gal. .65 - .70
tanks, East.....gal. .60 - —
steam-dist., ret. dms., East. gal. .89 - .86
tanks, East.....gal. .74 - .75
Sulphate, ret. dms.....gal. .65 - .70

# U

Unicorn root, false (see Helonias root).
True (see Aletris root).

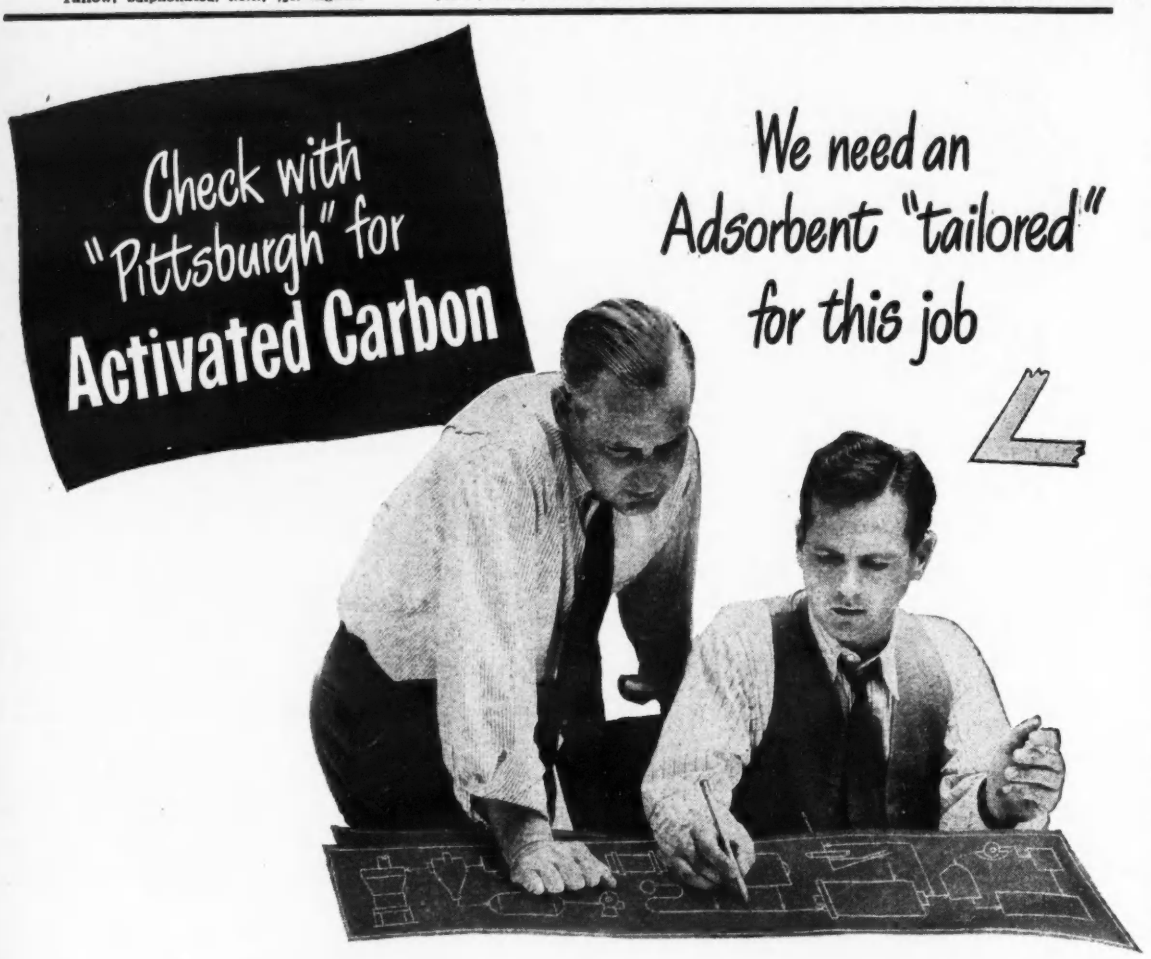
Uranium,[4] oxide, black, bgs...lb. 2.55 - —
yellow, kgs.....lb. 1.05 - —

Urea, dom., 46% N., bgs., c.l., works or ship. pts..ton.69.00 - —
l.c.l., ship. pts.....ton.70.50 -86.00
import, pure, cs.....lb. .12 - —
Fertilizer comp., 42% N., bulk, c.l., works or Atlantic or Gulf ports..ton.57.40 - —
fixed ammonia content, usual Atlantic and Gulf ports, $NH_3$..ton.116.80 - —

C and D prices for Urea-ammonia liquer are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.

Urea-ammonia liquer (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..ton.90.09 - —
fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va., $NH_3$..ton.112.60 - —

Urunday, extract, 62% tannin, ex dock, U.S. ports..lb. .0562½- .05675
Uva ursi leaves, bls.....lb. .16 - .19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For most applications standard or "ready made" grades of Activated Carbon manufactured by Pittsburgh Coke & Chemical Company are entirely satisfactory. Occasionally, however, special conditions may require an adsorbent made to your exact specifications. For such applications *Pittsburgh* Activated Carbon can be "tailored" to fit the need.

Wide experience in the field of adsorption qualifies our technical staff to render intelligent cooperation. Quantity manufacturing facilities, additionally, make *Pittsburgh* a dependable source of supply.

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**Pittsburgh Coke & Chemical Company**
Grant Building — Pittsburgh, Pennsylvania

## V

Valerian root, Belgian, NF, bls. lb. No stocks
Indian, bls. lb. .65 - .70
Valonia, beards, bgs., f.a.s. ton. No prices
Cups, bgs., f.a.s. ton. No prices
Vanadium[1] pentoxide, CP, bgs., cns., works. lb. 7.00 - —
tech., dms., works. lb. 1.10 - —
Vanilla beans, Bourbon, tins. lb. 7.75 - 8.50
Mexican, cuts, tins. lb. 9.50 -10.00
whole, tins. lb. 10.50 -11.00
Tahiti, white label, tins. lb. 4.50 - 4.75
yellow label, tins. lb. 3.25 - 3.50
West Indian, tins. lb. No stocks
Vanillin,[1] ex eugenol, tins, 25 lbs. or more. lb. 2.60 - —
smaller lots, tins. lb. 2.65 - 2.75
ex guaiacol, tins, 25 lbs. or more. lb. 2.35 - —
smaller lots, tins. lb. 2.40 - 2.50
ex lignin, tins, 25 lbs or more. lb. 2.35 - —
smaller lots, tins. lb. 2.40 - 2.50
Venice turpentine, artif., cns. lb. .24 - .25
Verdigris, bbls., bgs. lb. .22 - .23
Vinyl acetate, cbys., works. lb. .26 - —
dms., c.l., works. lb. .18 - —
l.c.l., works. lb. .19 - —
smaller pkgs., l.c.l., works, lb. .28 - —
Ether, bots., 75 c.c., less 20% and 20%. bot. 1.50 - —
50 c.c., same basis. bot. 1.05 - —
25 c.c., same basis. bot. .65 - —
Trichloride (see Trichloroethane).
Vinylpyridin, ref. dms., works. lb. 1.50 - —
Viosterol (irradiated ergosterol), bots., mil., units. .10 - .13
in corn oil (see Calciferol).
Vitamin A (see Oils, codliver, halibut-liver).
$B_1$ (see Thiamine hydrochloride).
$B_2$ (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
C (see Acid, ascorbic).
D (see Oils, codliver, halibut-liver, viosterol).
$D_2$ (see Calciferol).
E (see Alphatocopherol).
G (see Riboflavin).
P-F (see Acid, nicotinic, and Nicotinamide).
Violet, methyl, toner (see M).
V.M.P. naphtha (see Petroleum naphtha, v.m.p.).

## W

Wahoo root bark, bls. lb. .55 Nom.
Wattle bark,[1,3] E. Africa, bgs., f.a.s. ton. 52.50 - —
S. Africa, merchantable, bgs., f.a.s. ton. 52.50 - —
fair average, bgs., f.a.s. ton. 55.00 - —
prime quality, bgs., f.a.s. ton. 57.50 - —
extract,[1] liquid, 55% tannin, bbls., works. lb. .05½- .06½
tanks, works. lb. .04½- .05½
solid, E. Afr., 61% tannin, ex dock. lb. .05936- .06342
S. Afr., 62% tannin, ex dock. lb. .0672- .0697
Wattle extract prices based on $12 freight and $1.00 insurance per long ton.
Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs. lb. No stocks
Bees, bleached, USP, white, bricks, cakes, cs. lb. .68 - .70
slabs, bgs. lb. .65 - .68
crude, African, bgs. lb. .50 - .51
Western hemisphere, bgs. lb. .57 - .59
refined, yellow, bricks, bgs. lb. .56 - .61
cakes, cs. lb. .55 - .60
Candelilla, crude, bgs. lb. .75 - .78
refined, bags. lb. .80 - .82
Powdered, candelilla, 20 mesh, 5c. per lb. extra; 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, No. 3, bgs., ton lots. lb. 1.70 - 1.72
North Country, No. 2, bgs., ton lots. lb. 1.78 - 1.80
No. 3, bgs., ton lots. lb. 1.75 - 1.80
refined, bgs., ton lots. lb. 1.80 - 1.85
yellow, No. 1, bgs., ton lots. lb. 1.85 - 1.87
No. 2, bgs., ton lots. lb. 1.83 - 1.85
Powdered carnauba prices, same differentials as powdered candelilla.
Ceresin, dom., 132°-136° m.p., bgs. lb. .12¾- .13¾
138°-140° m.p., bgs. lb. .14 - —
158°-162° m.p., bgs. lb. .19 - .22
Japan, cs. lb. No stocks
Microcrystalline, 170°-175° m.p., A.S.T.M., amber, ctns. 20 tons, yearly contract, group 3, works. lb. .14½- —
amber, ctns., smaller lots, same basis. lb. .14½- .15½
black, ctns., 20 tons, same basis. lb. .12¾- —
smaller lots, same basis. lb. .13 - .13¾
190°-195° m.p., A.S.T.M., amber, ctns., 20 tons, same basis. lb. .16½- —
smaller lots, same basis, lb. .16½- .17½
black, ctns., 20 tons, same basis. lb. .14¾- —
smaller bots., same basis, lb. .15 - .15¾
190° - 195° m.p., A.S.T.M., white, ctns., 20 tons, same basis. lb. .24¾- —
smaller lots, same basis, lb. .25 - .25¾
Ouricury, crude, bgs., ton lots. lb. 1.10 - 1.15
refined, bgs., ton lots. lb. 1.30 - 1.35
Powdered ouricury prices same as powdered candelilla.
Montan, domestic, bgs. lb. No stocks
Ozokerite, dom., 180-190 F., l.c.l. lb. .28 - —
182-183 F., bgs., c.l. lb. .31 - —
171-172 F., bgs., c.l. lb. .27 - —
Spermaceti, blocks, cs. lb. .27 - .32
cakes, cs. lb. .28 - .33
White lead (see Lead, white).
White precipitate, powd., dms., 50 lbs or more. lb. 2.50 - —
White pine bark, rossed, bls. lb. .16 - .19
Whiting,[1] chalk, dry-grd., bgs., c.l. ton. 18.00 -22.00
l.c.l. ton. 20.00 -24.00
wet-ground, bgs., c.l. ton. 21.00 -25.00
l.c.l. ton. 25.00 -29.00
gliders, bolted, bgs., c.l. ton. 20.00 -24.00
l.c.l. ton. 21.00 -25.00
extra-bolted, bgs., c.l. ton. 22.00 -26.00
l.c.l. ton. 23.00 -27.00
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, N.E., works. ton. 6.00 - —
smaller lots, N.E., works. ton. 7.00 - 9.00
wet-grd., air-coated, 360 mesh, 99½%, bgs., c.l. ton. 9.35 -10.10
200 mesh, 99%%, bgs., c.l. ton. 8.00 - 9.50
90%, bgs., c.l. ton. 6.25 - 7.00
water-floated, extra gilders, bgs., c.l. ton. 10.00 - —
gilders, bgs., c.l. ton. 12.45 - —
putty grade, bgs., c.l. ton. 12.00 - —
Paris white, bgs., c.l. ton. 24.00 -28.00
l.c.l. ton. 25.00 -29.00
precipitated, bgs., c.l. ton. 14.00 -18.00
l.c.l. ton. 18.00 -20.00
Wild cherry bark, thick, bls. lb. .06 - .07
thin, natural, bgs. lb. .16 - .17
roosed, green, bls. lb. .25 - .26
Wild indigo root, bls. lb. .22 - .25
Witch-hazel leaves, bls. lb. .21 - .25
Witherite (see Barium carbonate, natural).
Woodflour, 40 mesh, bulk, c.l., N. Tonawanda, N. Y. ton. 20.00 - —
60 mesh, same basis. ton. 24.00 - —
80 mesh, same basis. ton. 27.00 - —
100 mesh, same basis. ton. 30.00 -32.00
Woodflour, in bags, 25c. each extra, returnable.
Wormseed, American, bgs. lb. .20 - .22
Levant, bgs. lb. 4.50 - 4.75
Wormwood, bls. lb. .50 - .60

## X

Xanthorrhiza, bls. lb. .25 - .30
Xylene (see Xylol).
Xylidin, mixed, dms. lb. .33 - .35
Xylol (xylene), coaltar, indus., ref. dms., works. gal. .31 - —
tanks, E. of Omaha, frt. alld. gal. .28 - —
West Minnequa, Colo. gal. .26 - —
10°, ref. dms., works. gal. .34 - —
tanks, E. of Omaha, frt. alld. gal. .29 - —
5°, ref. dms., works. gal. .41 - —
tanks, E. of Omaha, frt. alld. gal. .36 - —
3°, ref. dms., works. gal. .47 - —
tanks, E. of Omaha, frt. alld. gal. .41 - —
Petroleum, 10°, tanks E. of Omaha, frt alld. gal. .26 - —

## Y

Yara yara, cryst., bots., cns. lb. 1.75 - 1.90
Yeast, brewer's dry, 50 B units, dms. lb. .35 - —
90 B units, dms. lb. .45 - —
200 B units, dms. lb. .50 - —
300 B units, dms. lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul. lb. .32 - —
Barium chromate yellow price differentials in other State and city zones are those for chrome yellow below
Benzidin, bbls., dlvd. lb. 1.35 - 2.25
Cadmium, CP, bgs. lb. 1.25 - 1.40
ton lots, E. of Rockies. lb. .55 - —
smaller lots, same basis, lb. .60 - —
sulphide, orange, cs., kgs., works. lb. 1.10 Nom.
Yellow chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts. lb. .16 - —
Chrome yellow prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport), 1¼c., Miss., N. C., S. C., Texas, Dallas, Tex., 1¼c.; Ft. Worth, Tex., 1½c.; El Paso, Tex., 2c.; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Dutch, pink, bbls. lb. .09 - .11
Hansa, bbls., same basis as chrome. lb. 1.37 - —
primrose, bbls., same basis. lb. 1.75 - —
Iron oxide, nat., bbls., c.l., Bethlehem, Easton, Pa. lb. .04½- —
l.c.l., same basis. lb. .05 - —
synthetic, bbls., c.l., works. lb. .0653- —
l.c.l., works. lb. .0710- —
Mercury oxide, bbls., 1,000 lbs. lb. 2.42 - —
smaller lots. lb. 2.45 - —
Ocher, American, golden, bbls., works. lb. .04½- .06¼
yellow, bbls., works. lb. .02 - .02½
French type, bbls., c.l. lb. .0945- —
l.c.l. lb. .0965- —
Persian orange (see O).
Zinc, bbls., same basis as chrome. lb. .16 - —
Navy spec. type, bbls., contract. lb. .18 - —
Yellow dock root, bls. lb. .35 - .39
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls. lb. .30 - .33
Yohimbine hydrochloride, vis., oz. 3.00 - 5.75

—Continued on page 46

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OPD—5-27-1946 34

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## Determining Rights

Broad business interest attaches to the agreement of the Supreme Court of the United States to review the lower court's judgment in favor of the government in the action alleging monopolistic practices in commerce in titanium compounds. Important as are the commodities involved in that action and the corporations whose practices it attacked, the importance of the supreme court's taking up of the issue derives from the principle involved. The merits of the government's charge rest upon the limitations that are laid by the antitrust laws on activities relevant to the exercise of patent rights.

All that the supreme court can do to clarify the puzzling relationships of the laws which grant special rights and those which seek to assure full freedom will be most welcome now. This applies with equal truth to the, at least, implied conflict of patent rights and restraint of trade as statutorily determined and to that of the constitutional rights of the individual and the statutory privileges with which, at least, some groups of individuals have been specially vested.

It is, of course, too much to expect that the supreme court will be given an opportunity to determine the issue of the right to strike versus the right to work. The latter ancient and honorable right seems to get no consideration in a litigatory sense, either as something to be sought or something to be defended. A million workers do not work—and do nothing about it—when a thousand others exercise there right to strike. The issue raised in that condition apparently should have some consideration as a basis of some sort of jurisdictional dispute within the realms of organized labor.

Encouragement must be found along other lines of clashing rights. And so it is of particular interest that the question of scope or area of patent rights in the atmosphere of the antitrust laws is to come up for supreme determination. The dictum of the highest court on that matter is much to be desired—and for more reasons than the effect which it may have on the movement to change the patent laws.

## Price-Control Farce

The legislation in which the lower house of Congress reduced to impracticability the functioning of the Office of Price Administration, has been fitted with all sorts of "improvements" in the course of its consideration in senate committee. What will come out of the committee cannot be foretold, but the indications are that OPA will not be left with much power. It also appears that the agency will be called upon to exercise still more interpretatively, as there is a tendency to make all the briefly remaining price-controls dependent upon all sorts of conditions attributable to their effects.

Price-controls, for example, would have to be important in relation to the cost of living or that of doing business—the administration to determine that point. They would, under another "improvement," be conditioned to the minimum limit of October, 1941, plus subsequent average increases in unit costs. Maximum prices would be outlawed when their removal would not, apparently, cause a rise in the general price levels. How all these things would be figured out has not yet been set forth, and OPA could be expected to do still more floundering around in the welter of conflicting testimony.

It is evident that even those members of Congress who believe that it is desirable to endeavor to keep some measure of check on inflation are not believers in real price-control. There never has been any real price-control because Congress decreed otherwise from the start. The continued muddling and dodging force the conclusion that the whole silly farce should be dropped. Wholesale prices have gone up to a new all-time high in the past few weeks and stand almost 5 percent above the 1945 level at this time. They will continue to go up as long as the "improving" of OPA functioning continues to follow the lines that always have been followed.

Inflation is already here. Most of it is illegitimate, but nevertheless it stands. Wage demands and admissions that clothing is being held off the market are now reinforced by the declaration of cheesemakers that they will not market their products until prices are made more profitable. The free economy has fallen into a peculiar "government" by men. Another "experiment noble in purpose" has been wrecked, largely through poor preparation and not much better performance. The situation may be summed up as a question of whether to continue price-controls and be unable to get desired goods, or to loose prices and be unable to pay for desired goods. There is reason to believe that the latter might prove the lesser evil as soon as the expectably consequent buyers' strike got well under way.

## Antiquated Militarism

Among the various things that Congress would rather not do, making changes in the ancient ideas and policies and practices of national defense stands big. Congress has but recently made a mess of the manning of the job of national defense. For all practical purposes, it has sneaked up an alley and left behind an ashcan the matter of a more modern, more adequate, more effective system of national defense. As it goes whistling home for the hustings, it feels safe in the belief that the electorate cares so little and knows so much less about the national military problems of today and tomorrow that there will be no reason to give another thought to the "papers in the case" reposing in desertion.

In some measure it is purely coincidental that, with the deserting of the proposal for better and greater unity in the system of national defense, there comes into popular circulation a full-page newspaper advertisement of a "colossal volume," the "great admirals'" answer to their recent arraignment by a civilian author, a verbal and pictorial presentation of "your navy in action." Comes also with admirable timeliness the Army Air Forces' publication of "some views of Allied Air Power from those who were on the receiving end" when the "material and moral resources of Germany" were smashed from the air.

Nobody denies that the navy and the air forces—and the army—did a grand and effective job of warfare. Nobody will ever know which arm of the services did the best job, which was the indispensable one, or which might have done much better on its own accord or if it had had the proper support and cooperation of another one or two. On the other hand, there was Pearl Harbor and there were more than a few incidents of many degrees of importance in all theaters of operations where the functioning of a coordinator could have, probably would have, resulted in a better, less costly job.

Those things belong to history, with all its shortcomings. The question before the nation today is:—Would not the national defense be better served by a more correlated, more coordinated system? It is not to be assumed that Congress is prepared to deal with that question out of the knowledge it has of the possibility or the practicability of any plan thus far offered. But, the alternative is not that the matter should be left up in the air. It would be somewhat naive to expect Congress ever to know enough as a basis of mature judgment: too many unknown, unpredictable human factors will be brought into play for years to come under whatsoever plan might be set up. More study might be of some help; but delay or deferment can do no real good.

One unfortunate thing about the proposal better to unify the system of national defense is that it has been given the bad name of "merger." There should be no merging of navy, army, and air forces. The army should have nothing to say about the running of the navy—and vice versa. All should be run from a single head with all possible correlation and coordination (in the exact sense of that term). If Congress insists upon accepting some other, biased interpretation of what is needed and persists in putting off the action necessary for the doing of what should be done—maybe it is waiting for Bikini?—the President, as commander-in-chief, should simply order it done. There is nothing in the constitution that prohibits the active functioning of a coordinator and correlator of national defense. It would not be necessary to abolish the war and navy departments. They can be by-passed.

# *Washington Talks It Over*

*—Continued from page 5*

attacks over the manner in which the agency has been disposing of surpluses. The protestants run the whole gamut of priority claims from those Federal bureaus entitled to the first call on surpluses to State and local bodies and tax-supported institutions demanding that WAA exercise the donation provisions of the law where it can't find a buyer for the surpluses.

Congressmen claim that the surplus disposal program is operated so inefficiently and has been so shot through with irregularities that it is fast developing into a national scandal. They are comparing it with the Teapot Dome of the Harding administration.

### Miners Chafe Under SEC

The old bunko about how mining companies are being stymied in their efforts to find new sources of minerals, metals, and petroleum by the hardships imposed on them by SEC red tape is being handed out again. It is now being said by those who want to be exempted entirely from SEC supervision that the commission is forcing this to become a "have-not" nation by the restrictions it imposes on prospectors and mining companies seeking capital to carry on their operations.

It was only a few years ago that Congress relaxed the law to exempt all security issues of $300,000 or less from the requirement that they be registered with the commission. Now a move is on foot to exempt all securities issued by individuals, firms, or corporations engaged in prospecting for minerals, metals, petroleum, or natural gas, or in the production thereof.

Congressional supporters of the legislation claim that SEC is exceeding its authority by dictating evaluations of property in the process of exploration, requiring the companies to set up "fantastic" accounting systems, and invoking impracticable regulations concerning data that must be disclosed in promotional advertisements.

### Arsenic from Sweden

Government officials are beginning to be concerned about the supply of arsenates for agriculture this year. The labor difficulties that have plagued domestic producers have now spread to Mexico, threatening to cut off or slow down supplies from that source. As a result, inquiries are now being made into the prospects of Sweden's sending over some of the material.

There have been a lot of rumors about Swedish supplies, none of which, however, has been pinned down. There are reports that Sweden has a stockpile of low-grade stuff ranging from 100,000,000 pounds to 1,000,000,000 pounds. But what it has in the way of refined material, measuring from 9 to 99 percent, which is what we need for agriculture, is something we haven't been able to find out. The belief is that most of this has gone to Europe, but it is not known for sure.

Several inquiries have been made to our embassy in Stockholm to find out the situation, but the two cables that went forward several weeks ago have produced no response. One department is threatening to send one of its own men over there to find out what's what.

### Famine Relief to Stay

What has been suspected to be imminent for a long time has at last happened. A move has been launched to turn UNRRA into a permanent organization to fight famine wherever it might occur throughout the world.

Director LaGuardia of UNRRA let the cat out of the bag in some extemporaneous remarks this week before the Food and Agricultural Organization of the United Nations. He said that in his opinion UNRRA should not be dissolved nor the world abandon charity as a basis for food distribution. On the contrary, he said, distribution of food and also production of food should be placed permanently under internationally controlled supervision.

A quart of milk for every Hottentot. ? ! ? !

### Sulphuric Acid Figures

In one of the items of this column last week mention was made of the fact that figures on production of sulphuric acid are now being obtained by the government from only about 95 percent of the industry. While the statement is true, it should be clarified for those who make use of the sulphuric acid production figures released by the Census Bureau.

While "actual" production figures are gathered by the Census Bureau from only 95 percent of the industry, in the tabulation it issues monthly it also includes an "estimate" of production by the byproduct producers, so that the total figure comes nearer to representing 100 percent of the industry than it does 95 percent of the industry.

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- Glucono Delta Lactone
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- Iron and Ammonium Oxalate
- Iron Gluconate
- Iron Oxalate
- Itaconic Acid
- Niacin
- Niacinamide
- Oxalates
- Penicillin
- Potassium Iodide
- Potassium Oxalate
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- Rochelle Salt
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- Sodium Gluconate
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| | Boiling Range, °C. | Lbs. per gal. |
|---|---|---|
| Methylene Chloride (Dichloromethane) | 39.5–40.3 | 11.07 |
| Chloroform, U.S.P. & Technical | 60.4–61.4 | 12.43 |
| Carbon Tetrachloride, C.P. & Technical | 76–77 | 13.30 |
| Trichlorethylene | 86.3–87.5 | 12.30 |
| Perchlorethylene (Tetrachlorethylene) | 120.5–122.0 | 13.55 |
| Tetrachlorethane (Acetylene Tetrachloride) | 146.3* | 13.32 |
| Pentachlorethane | 160.5* | 14.03 |

*Approximate boiling point

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# Heavy Chemicals

Supply conditions in heavy chemicals have gone from bad to worse during the past week. Most warehouse stocks have disappeared and inventories generally have shrunk to new low levels. Influences of the soft-coal strike and the confusion over transportation that were staved off earlier in the month have at last spent their full force on the chemical market. Buying interest was active, but there was an absence of the wild inquiries that were noted prior to the expectation of the former freight embargo. Cutback production has restricted the amount of material passing into consuming industries while it has built up a sizable backlog of orders that will take a long time to liquidate. The flow of coal has been irregular and has forced a rather fluid state of production. Many complaints have been voiced over the shortage of containers, the scarcity having reached the acute stage with no definite improvement in sight.

All the caustic soda and soda ash that it was possible to produce has been moved to the consuming industries, but the tonnage shipped was far below requirements. The market for bicarbonate of soda has tightened sharply and it looked as though this chemical was tagged for a condition similar to that in soda ash. Possibly an encouraging spot was revealed in the decrease of chlorine stocks. This was suggestive of a larger production with a corresponding increase in the output of electrolytic caustic soda. The phosphates have felt the coal shortage and the pinch in soda ash and so has every other chemical in which soda ash is used. So far, the mineral acids have maintained a fair degree of balance and this classification held about the best inventory position in the market.

Production figures appearing in some of the following market reports were released by the Bureau of the Census unless otherwise specified.

## *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

None

**Comparative Price Indexes**

*General Chemicals*

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 168.5 | 168.5 | 168.5 | 169.0 |

*Acids*

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 116.0 | 116.0 | 116.0 | 116.0 |

*(For Current Prices see page 9)*

**Ammonia Bifluoride** — Producers have inventories sufficient to meet requirements for prompt shipment. Most of the other fluorides were also available.

**Antimony Oxide**—Inventories have continued sufficient to meet demand, although no excess stocks were reported. The outlook carried the same degree of uncertainty as noted in other chemicals on account of the confusion existing in transportation and soft coal supplies. The movement of oxide remained under government control.

**Arsenic**—Definitely short with production cutback by labor difficulties. Some hope was reported for Swedish arsenic but this was conditional on shipping and government regulations. Only a small quantity has arrived to date.

**Calcium Phosphate**—Production of dibasic was lower in March. Output registered 7,233 tons compared with 8,083 tons in the preceding months.

**Carbon Dioxide**—More liquid and gas was produced in March. The total registered 17,681,000 pounds, compared with 15,630,000 pounds in February. Production of solid, dry ice, in March was also higher at 47,654,000 pounds, against 38,539,000 pounds in February.

**Carbon Tetrachloride**—Market conditions have tightened and while material was available, inventories were lower than at the beginning of the month. Cutback production has allowed the market to assume a much better balanced position with a firmer undertone.

**Chlorine**—Reduced inventories have tightened the market's position and it looked as if the accumulated surplus had been worked off. This condition is expected to eventually result in an increased production which would result in more caustic soda being made available.

**Chromite**—Report of investigations 3885, "Exploration of Red Mountain Chromite Deposits, Kenai Peninsula, Alaska," which tells of the Bureau of Mines' trenching, diamond drilling and sampling on these Alaska deposits discovered prior to World War I and considered one of the largest known deposits of high grade chromite in North America. A copy may be obtained free by addressing the Bureau of Mines, Washington 25, D. C. Mention the publication by name and number.

**Copper Sulphate**—Labor difficulties at the copper mines and at two large copper sulphate plants remain unsettled, although it is understood that the situation looks a little more hopeful. Agricultural demand for copper sulphate has increased and supplies are expected to become increasingly tight as the season advances. It is stated that to date, all immediate requirements have been covered. The suspension of exports has been continued in order to take care of domestic requirements. Meanwhile, some of the producing plants operating have been able to keep output at a higher level in order to meet the emergency.

**Fluorite**—Report of investigations 3877, "Exploration of the Bear Lodge Fluorite Property, Crook County, Wyoming," is completed and relates to Bureau of Mines' work on this property by surface trenching, test pitting, shaft sinking, and drifting at shallow depth. A copy of the publication may be obtained free from the Bureau of Mines, Washington 25, D. C. The publication should be identified by number and name.

**Potash Carbonate**—Market position tight with production moving against existing contracts. Low inventories have restricted buying for immediate use.

**Potash Chlorate**—Prevailing conditions have forced this market out of balance. Shipments have been made as fast as possible, but schedule has been interrupted by coal and transportation difficulties.

**Salt Cake**—Heavy buying during the past month has kept inventories low. Demand has come mostly from the paper mills and glass plants. Production in March amounted to 30,201 tons, compared with 27,619 tons in February.

**Soda Ash**—Contract shipments have been fed from cutback production in an attempt to satisfy at least a part of the heavy demand. The flow of soft coal to producing plants has been irregular forcing a variation in output of soda ash. All material produced has been allocated to contract consumers and the open market has remained bare of stocks except for odd lots of resale material.

**Soda Bicarbonate**—Production has been temporarily interrupted by labor difficulties and a lack of coal. Inventories are short at present. Department of Agriculture sold over 27,000 cases of baking powder, 6-5 pound tins to the case at 1½c. a pound, f.o.b. California points. The Department also sold 9,666 cases of baking soda, mostly in pound cartons, 36 to a case at 1½c. a pound, f.o.b. California points. The sales were made on April 15.

**Soda Caustic**—Production lower and more irregular with output subject to the amount of coal available. Shipments allocated and confined to existing contracts. So far demand has not shown much relaxation although the uncertainty of the soft coal supply is sure to be reflected in the consuming industries. Tighter position of chlorine stocks suggests increased production of electrolytic caustic soda but prospects will continue decidedly uncertain until the fuel situation is straightened out. Only odd lots of resale material are reaching the open market.

**Soda Chlorate** — Shipments have

*For Late Market Developments, See Page 4*

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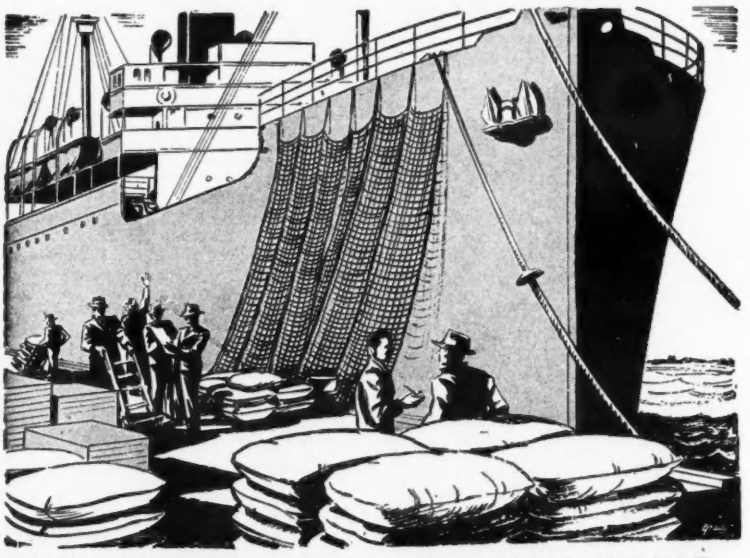

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## *Advanced by Calco*

**Dr. Robert P. Parker (left) has been appointed assistant to the research director of the Calco chemical division of the American Cyanamid Company, Bound Brook, N. J., and Dr. Dale R. Eberhart has been named research fellow of Calco. Dr. Parker, for the past two years assistant director of the organic section of the research department, has been with the company since 1933, and Dr. Eberhart has been associated with it since 1935.**

fallen further behind schedules and possibilities of improvement are uncertain on account of all the conflicting influences prevailing at the present time. Suppliers are not eager to name specified shipments until the coal and transportation confusion is cleared away.

**Soda Phosphate**—Lower production of tetra was registered in March. The total was placed at 4,632 tons against 5,125 tons in February. Meta output was 2,416 tons, compared with 2,647 tons in February. Monobasic production was down to 985 tons, against 1,116 tons in the preceding month. Stringency in soda ash combined with coal shortage and transportation confusion has cutback production of all varieties and placed the markets in an exceedingly tight condition.

**Tungsten**—Geological Survey has released a report on tungsten deposits in the Cherry Creek district, White Pine County, Nev. The deposits were examined in 1943; in advance publication the report and accompanying map have been placed in open file at the following offices, where they may be consulted by anyone directly interested in the property:—Geological Survey Library, Federal Works Building, Washington 25, D. C.; Geological Survey Western Regional Office, 506 Federal Building, Salt Lake City 1, Utah, and the Nevada State Bureau of Mines, Reno, Nav.

## Acids

**Acetic**—Supply situation satisfactory, but container shortage has caused some irregularity in the movement to consumers. Fair miscellaneous inquiry for home and export.

**Chromic**—Production short of demand, with shipments confined mostly to domestic consumers who have contracts. Steady absorption has restricted the export movement, although foreign inquiry has continued active.

**Muriatic**—Just about enough stock at present to meet consuming demand. Fuel shortage has kept production down.

**Naphthenic**—This material was available last week, although there was a limitation on orders. Buying interest of fair dimensions reported.

**Oxalic**—No definite shipment dates can be named at present. The heavy backlog of orders has covered production for several weeks ahead, and producers can only ship material when it is available, which, under present conditions, is decidedly uncertain.

**Phosphoric**—Market supply has tightened during the month under lighter production. In March output reached 74,774 tons, compared with a revised total of 69,525 tons in the preceding month.

**Sulphuric**—Current inventories appeared able to meet local demand, although the container shortage is proving a rather serious problem. In general, some relaxation in buying interest from the iron and steel industry, but inquiry from other sources, particularly for superphosphate, and for export continued active.

*Baltimore, May 24.*—Production of superphosphate is creating such a demand for sulphuric acid as to turn the scales from what had been an excess over the current need to a draft upon the accumulation of this commodity in storage with a reduction in stocks that had existed since the termination of the war by provision of additional tanks. At that, requirements for superphosphate are not being taken care of to the full, with every indication that any further accumulation of acid will be avoided. The ceiling on acid remained unchanged at the top figures allowed producers in March four years ago, at which level the producers are able to market their output readily. They might even be in a position to do better but for the prohibition imposed by the government which continues to exercise war time control. Meanwhile, production costs have advanced with transportation and acid making material prices higher than they were. All indications point to the continuation of the cost schedule at the present level.

### Molybdenum Output Up

Domestic output of molybdenum, in terms of metallic content after allowances for conversion losses, rose from 37,000,000 pounds in 1941 to nearly 58,000,000 in 1943, but dropped to 38,000,000 in 1944 and to a monthly average of a little over 2,500,000 in the first eleven months of 1945, according to the Civilian Production Administration.

## *Trade Briefs*

**Purex Corporation,** chemicals manufacturer, South Gate, Cal., will construct a new office building in that city.

**E. W. Smith Chemical** Company has moved its offices to 3485 East 24th street, Los Angeles.

**Durham Chemical** Company, Los Angeles, is building a new factory in that city at a cost of $18,000.

**Manufacturing Chemists' Association** of the United States is issuing the second of its series of product safety manuals, entitled "Chemical Safety Data Sheet—Benzene."

**Calgon, Inc.,** manufacturer of cleaning compounds, Pittsburgh, has appointed Golden Latshaw as its first sales representative for the company's new rustproofing treatment of steel and galvanized steel. Mr. Latshaw will make his headquarters at the home office.

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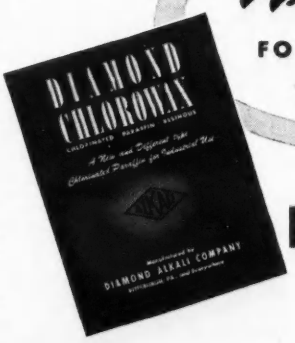


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## OIT Adds More Items To Positive List

*OPD Washington Bureau*

The Office of International Trade has added the following commodities to its "positive" list:—

Lead arsenate; lead acetate; potassium compounds, except fertilizers; hydroxide or caustic potash; potassium carbonate and mixtures; potassium nitrate (black saltpeter powder); potassium nitrate mixtures, ammonium compounds; urea (except synthetic resins and fertilizers); urea ammonium salts; sodium plumbite, chemical pigments; lead pigments including blue lead and lead sulphate; molybdate chrome orange paste and semipaste paint colors in oil, putty, and paste wood filler and lead sublimed in oil.

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**BARIUM CHLORIDE**

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## Aerosol Insecticide Bombs Retail Price Set

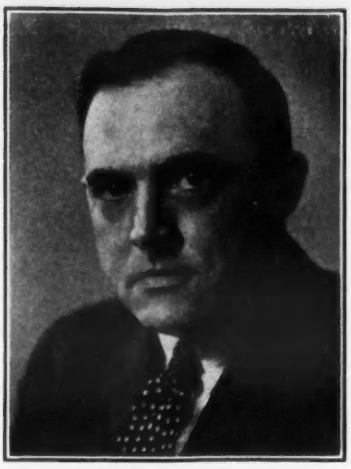
*OPD Washington Bureau*

A retail ceiling price of $2.65 has been established for new one-pound insecticide liquid aerosol bombs declared surplus by the government and now available to civilians, the Office of Price Administration has announced today. Packed 24 to a case, the bombs contain pyrethrum, DDT, cyclohexanone and lubricating oil. On all sales to wholesalers, the ceiling price is $1.15 each, and on sales to retailers the ceiling is $1.70 each. The ceiling price must be plainly marked on each bomb for sale at retail.

### Virginia-Carolina Employees In Service All Return

The Virginia - Carolina Chemical Corporation, Richmond, Va., announced that all its employees who entered the Armed Forces have returned to duty. Among them are Edwin Cox, general manager and William T. Thomas, assistant sales manager of the Southern area.

## *Amer. Can Sales Head*



**L. W. Graaskamp has been named general sales manager for the American Can Company, New York. Mr. Graaskamp joined American Can at Chicago in 1920 and was named assistant general sales manager of the packers' can division in 1934. He was transferred to New York as assistant general sales manager in 1944.**

**Heavy-duty ICC Drums and Bilge Barrels**

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**Light-gage Drums, 55, 30, and 15 gal. capacity and 100 lb. Grease Drums**

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**Lightweight Drums for Chemical and Powdered Materials**

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**Painted Various Colors or Decorated**

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J&L Steel Barrels are built strong and sturdy for safe shipment and storage of cleaning fluids, paint thinners, high octane gasoline and other inflammable products. They are made of J&L Controlled Quality steel by men who have spent many years in perfecting their manufacturing methods to give you the best drum for your money. Painted or decorated in your distinctive colors they add measurably to the sales appeal of your product. Write your nearest plant for information.

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## Dow Expands Metals Corrosion Research

The Dow Chemical Company, Midland, Mich., has opened a new research laboratory to continue and further expand the metals and cathodic protection research program started by the company six years ago. Emphasis will be given to further study and development of magnesium for cathodic protection.

The new laboratory will be under direct supervision of Harold A. Robinson, who for the past fifteen years has been doing similar research on electromotive and corrosion problems in Dow's physical research laboratory. H. A. Humble, who has been associated with the Ethyl-Dow plant in Wilmington, N. C., will be in charge of laboratory research.

### C.E. Misch to Form Own Equipment Firm

The Charles E. Misch Company will be organized in New York to act as manufacturers' agent in specialized equipment for the chemical and food processing industries. Operations will cover the eastern states from Maine to Virginia. Mr. Misch will resign June 10 as metropolitan district manager for the Read Machinery Company, York, Pa., a post he has held for eleven years.

## *Chemicals Output Up*

*—Continued from page 4*

273 tons; acetone, 68 tons; acetaldehyde, 1,250 tons; ethyl alcohol, 3,850 liters.

Miscellaneous products:—Soap, 887 tons; cleansing agents, 3,391 tons; paints, varnishes and lacquers, 2,662 tons· Vaccines and sera, 14,483 liters; insecticides, 825 tons.

The report said that the March output of cyanamid fertilizers was an increase of one-third over February made possible by the Trosberg plants operated at over 90 percent of capacity during the month. Requirements of the U. S. Zone for nitrogen fertilizers for use during the spring of 1946 were estimated at 74,000 tons (N). Of this quantity only 16,800 tons, or 23 percent, will be produced and available for distribution in time for spring application, leaving a deficit for the spring crop of 57,200 tons. Anticipated imports will offset only 3 percent of this shortfall, it was added.

The outlook for the crop year 1946-47 is somewhat brighter since it is expected that about 70 percent of the requirements of 105,000 tons can be produced within the zone or made available from the French zone if the required processing coal is available.

Due to the shortage of both phosphate rock and basic slag in the zone the zonal requirements for phosphate fertilizer of 95,000 tons for 1946 spring use will be met only to the extent of 12 percent. In view of import limitations and limited operation of the German steel industry, the outlook for the crop year 1946-47 is only slightly better. Present estimates indicate that only about 35 percent of the requirements for this period will be available.

## Cyclic Chemical Corp. Organized in Chicago

The Cyclic Chemical Corporation has been organized in Chicago by Paul R. Eisenhuth and Wallace F. Helies, to manufacture and market organic and inorganic chemicals. The new firm will also open offices in New York and Washington, D. C.

Mr. Eisenhuth was associated with the Sherwin-Williams Company, paint manufacturer, Cleveland, for four years, Standard Ultramarine Company, Huntington, W. Va., for twelve years and the chemicals bureau of the War Production Board for four years. Mr. Helies was with the chemical products division of the Standard Oil Company of New Jersey for ten years. More recently, both were connected with the Velsicol Corporation.

## ACS Grants to Aid Predoctoral Chemists

The American Chemical Society has awarded fifty-nine fellowships, aggregating $100,000, to predoctoral students of chemistry and chemical engineering whose training was interrupted by the war. In addition, the society will award twenty postdoctoral fellowships, with a total value of $110,000, in 1946 and 1947, to candidates desiring to devote one or two years to research and teaching.

## Chemical Engineers Unit To Hold First Meeting

The first annual banquet of the Rochester section of the American Institute of Chemical Engineers will be held at the Normandie hotel, June 13. Guest speaker will be James G. Vail, vice-president of the Philadelphia Quartz Company, and president of the national group.

### Du Pont Names Worthington To Engineering Research Post

Hood Worthington has been appointed assistant director of the recently organized engineering research section of the rayon technical division of E. I. du Pont de Nemours & Co., Wilmington, Del. A member of the chemical department until 1935, where he was active in equipment design and testing in the field of high-pressure chemical synthesis, Mr. Worthington has been on assignment for the past three years at the Hanford Engineer Works, which the company operates for the government.

### Washington Univ. Names Kennedy Chemistry Head

Professor Joseph Kennedy, one of the four project directors at the Los Alamos, N. M., atomic bomb laboratory, and professor of chemistry at Washington University, St. Louis, has been appointed chairman of the department at the college. He will succeed Dr. Leroy McMaster who will become Eliot professor of chemistry next year.

### Monsanto Adds Sands To Organic Chemicals Div.

T. P. Sands, formerly lubrication engineer for the Gulf Research & Development Company, Pittsburgh, has been appointed automotive engineer in the research department of the organic chemicals division of the Monsanto Chemical Company, St. Louis. He will be specifically responsible for the technical coordination of petroleum chemicals evaluation.

### Reynolds Names Van Kennen Alminum Div. Assistant Head

J. F. Van Kennen has been named assistant general manager of the aluminum division of the Reynolds Metals Company, Richmond, Va. His headquarters will be in Louisville, Ky.

### Diamond Alkali to Build

The Diamond Alkali Company, Pittsburgh, will build a $400,000 plant and warehouse in Chicago.


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| Grade | Technical |
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| Ethyl Alcohol | 28 Grams. |
| Methyl Alcohol | 42.3 Grams. |

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## *Gwynne Bill*

*—Continued from page 3*

Striking examples of this have occurred in both the lumber and coal industries.

Some years ago the Wage and Hour Administration advised that cookhouse personnel in logging camps were there for the convenience of the employees, were not engaged in an occupation necessary for the production of goods for commerce and so were not under the act. Approximately three years later, the administration announced that it had been in error in its first opinion and that employers would be required to make retroactive overtime pay adjustments to cookhouse employees.

**Remedies Sought**

The bill seeks to remedy such situations by:—

1. Requiring that all causes of action accruing after the enactment of the law to be commenced within two years.
2. Requiring that all causes of action which had accrued prior to the law's enactment and which had not already become barred by any applicable statute of limitation be commenced within six months after such enactment.
3. Providing protection to all persons who had in good faith relied upon any regulation, order, or administrative practice, notwithstanding the fact that such regulation, order, or practice may have been later amended or rescinded, or declared to be of no legal effect.

Although the government departments that administer the various laws affected by the bill favored the enactment of some kind of a statute of limitations, they favored the limitation being placed at three years instead of two. This was particularly so in the case of the Department of Justice which called attention to the difficulties such a law might present in the enforcement of the antitrust laws.

The bill does not apply a limitation of time for filing of suits by the government, but the practice of individuals seeking to recover triple damages for antitrust law violations is to await the decision of the courts in the government's criminal actions and then file suit. Under the law the decisions in such criminal cases is acceptable as prima facie evidence of guilt in civil cases.

**Criminal Actions**

Many times the criminal actions take more than two years to complete and in such cases unless the individual files his civil action before the case is complete he would be barred from filing later. The Justice Department takes the position that this will weaken the entire antitrust program and will seek an amendment to the bill in the senate to extend the limitation period to three years.

Among other cases which are affected by the bill are the following:—

Actions for treble damages against persons importing goods into the United States and selling the same systematically at less than the market value with intent to injure an industry or to create a monopoly.

Suits against directors of national banking associations for knowingly violating certain banking laws.

Suits for treble damages against certain carries by water who discriminate against other carriers.

## *Southern Chem. Workers*

*—Continued from page 3*

The council also directed that a policy committee, composed of outstanding AFL leaders in the South be appointed to work with and advise the coordinator; the extension of full assistance to the organization drive by the AFL; urged all affiliated national and international unions to cooperate by assigning organizers to supplement and support the campaign; and called upon all local unions in the South to join with city central bodies and State Federations in making it a united effort.

The projected Southern organizing drive will be guided by these basic principles, the Council said:—

(1) Its primary objectives will be economic, rather than political. (2) It will offer the benefits of unionism to all workers, regardless of race, color or creed. (3) It will be carried on by an organization with an undeviating loyalty to the United States of America.

**CHEMICAL MARKET RESEARCH**

Long-established and nationally active chemical manufacturing company has an opening in its Market Research Department for a young man with training in chemical engineering or chemistry who likes outside contact work. The job consists of collecting information on the use, distribution and manufacture of chemicals and specialties needed by our management in planning expansion activities of the company. Write giving age, education, experience, salary expected and photo to Box 791, Oil, Paint and Drug Reporter.

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# Textile and Leather Chemicals

Tight supply conditions continued to affect business in sizing materials last week. Demand was unabated and exceeded supplies of all materials. Production of corn dextrin and starch moved steadily against former orders, but quantities were limited and far below current requirements. The tapioca situation was without change and it was reported that tapioca flour sellers had discussed with the OPA last week the adjustment of import ceilings inasmuch as the new crop in Brazil has started to move. Advices from Brazil indicated a firm market there with sellers maintaining prompt and nearby shipments well above prevailing ceilings. Conditions in potato starch lacked improvement with mills practically shut down owing to the scarcity of potatoes. Producers in Maine and Idaho were reported having difficulty in getting supplies because of the stiff competition from alcohol manufacturers.

While business transacted in imported tanning materials was light last week, inquiry continued active for quebracho and wattle extracts. Tanners were seeking to replenish supplies of these materials, but offerings for shipment were reported scarce. Buying interest in mangrove bark and myrobalans continued slow. Some resale myrobalans on the spot were offered below the shipment price, but attracted little attention. Domestic tanning extracts were in steady request against orders. Osage orange, quecitron and sumac extracts were firm at the recent advance.

Cotton spinning industry operated at 109.7 percent of capacity on a two-shift, 80-hour-week basis in April, compared with 101.7 percent during March and 116.9 percent during April last year.

## Market Trends

**Prices Advanced**

None

**Prices Reduced**

Divi-divi, $1 per ton.
Myrobalans, $1 per ton.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 288.4 | 288.5 | 288.5 | 279.7 |

*(For Current Prices see page 9)*

## Chemicals

**Alumina Sulphate**—Demand was active for delivery against orders. Supplies were moderate and well held at former levels.

**Bichromates** — Production moved steadily against contracts. Demand continued active for export, but shipments were limited owing to the scarcity of surplus stocks. Market was firm at ceilings.

**Soda, Acetate**—This market was firm, with business and deliveries affected by the coal strike. Inquiry for prompt requirements was reported keen.

**Soda, Hydrosulphite** — Deliveries were reported restricted by the coal strike. Demand against contracts was heavy. Prices were unchanged and firm.

**Sulphonated Oils**—Buying interest was active, though trading was hampered by the scarcity of supplies. Vegetable oils and tallow continued scarce and restricted production of sulphonated oils.

**Zinc Dust**—Production of zinc dust totaled 1,954 tons in February compared with 1,925 tons in the previous month. Shipments were 2,165 tons in February and stocks at the end of that month were placed at 1,604 tons by the Bureau of Mines.

## Dyestuffs

**Annatto Seed**—Arrivals totaled 350 bags at New York last week and were consigned against former contracts. Demand for spot supplies was light. Prices were steady.

**Cochineal**—Small lots were in request last week. Supplies were limited and well maintained at current quotations.

**Madder** — Routine business was noted mainly for small lots for immediate needs. Prices were without change.

## Sizing Materials

**Albumen, Blood**—Production continued curtailed owing to the scarcity of basic materials. This caused delays in deliveries. Demand was active. Dried soluble blood also was in good request. Prices were steady.

**Albumen, Egg**—Tight supply conditions featured this market. Offerings continued light and were well held at ceilings. Trading was moderate. Technical grades were steady and unchanged, depending upon quality.

**Dextrin, Corn**—Demand was urgent, but processors were distributing limited supplies against former orders. Production was sold well ahead. Prices were firm at ceilings. The trade awaited the adjustment of ceilings to be announced by OPA.

**Egg Yolk**—Scarcity of supplies continued to restrict business during the week. Offerings were limited and closely held at ceilings in view of the strength of egg futures.

**Starch, Corn**—Activity was confined to making deliveries on prior contracts, which were far behind schedules. Demand was urgent and exceeded supplies. Visible corn supply sharply increased 3,939,000 bushels to 24,620,000 bushels for the week ended May 18 as compared with 17,660,000 bushels a year ago, according to the Chicago Board of Trade.

**Starch, Potato**—Scarcity of potatoes has practically stopped production of starch. Mills and Maine and Idaho endeavored to purchase supplies in other States in order to continue operations, but it was stated were meeting with stiff competition from alcohol manufacturers. Demand for starch was active with trading limited. Prices were more or less nominal at 16c. per pound, in carlots, New York delivery with light sales reported at this figure.

**Tapioca Flour**—Business was reported at a standstill for new crop flour from Brazil. Consuming inquiry was keen, but sellers there maintained asking prices well above import ceilings. It was reported that sellers discussed with OPA the adjustment of the import ceiling on tapioca flour last week, inasmuch as the movement of the new crop has started. Arrivals of 2,110 bags of tapioca flour and 4,000 bags of manioc meal at New York last week for delivery on previous orders.

## Tanning Materials

**Chestnut Extract**—A steady consuming demand was noted against former contracts. Market was firm at ceilings.

**Divi Divi**—Arrivals totaled 2,210 bags and 3,605 seroons were reported at New York during the week for delivery on prior contracts. It was reported that the bulk of this season's crop has been sold up. Consuming inquiry was moderate. Market was steady. Shipments of 42 percent tannin were quoted at $70 to $71 per ton, exdock, U. S. ports and 38 percent at $68 to $69, same basis.

**Mangrove Bark**—Trading was slow and with offerings for shipment liberal, the market was none too steady. Tanners showed little interest in replacements. Quotations were unchanged.

**Myrobalans**—Recent heavy arrivals and offerings of stocks on the spot have created an easier tone in this market. Tanners showed little interest in spot material. Advices from primary centers quoted shipments of J1 at $54 per ton, and J2 $49 to $50 per ton, exdock, New York.

**Quebracho Extract**—Offerings for shipment were reported light, with tanners showing an active inquiry for replacements. Market was firm at ceilings.

**Tara Powder**—Buying interest was keen though business was inactive owing to the scarcity of offerings. Recent arrivals were delivered against previous contracts and were not available for resale. Quotations were well maintained at ceilings.

**Wattle Bark**—An active inquiry for prompt and nearby shipment continued to feature this market. Primary markets were firm at ceilings and offerings were reported unavailable.

*For Late Market Developments, See Page 4*

ALBUMENS

OPD—5-27-1946 43

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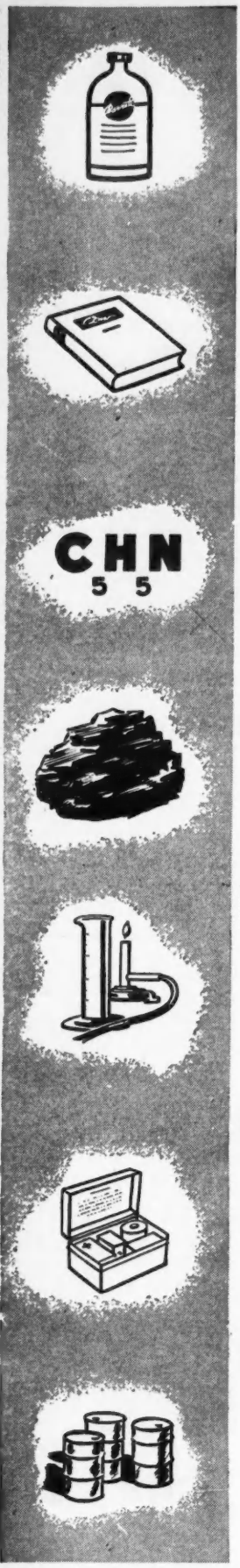
ALBUMENS

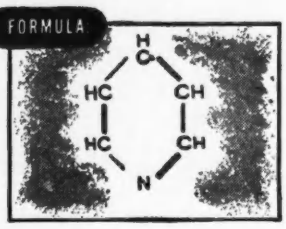
# PYRIDINE



**DEFINITION:** One of the liquid nitrogen bases formed during the destructive distillation of coal. Many related nitrogen compounds—so called "pyridine bases"—are recovered during the purification of pyridine.

**HISTORY:** Discovered and isolated in a pure state from bone oil by T. Anderson in 1846. It was one of the earliest denaturants for alcohol.

**FORMULA**




**SOURCES:** Pyridine is sometimes found in tobacco smoke, and has been isolated from bone oil, shale oil, lignite oils and certain petroleum oils. The chief commercial source is coal tar.

**CHARACTERISTICS:** Pyridine is a colorless liquid with a penetrating odor. It boils at 115° C and freezes at —42° C (—43.6° F) and is highly refractive to light. It weighs 8.20 pounds to the gallon. It will dissolve in water, alcohol, ether and combines with acids. It has antiseptic properties.

**USES:** Used in the manufacture of dyes and accelerators for rubber vulcanization, in waterproofing agents for fabrics and in the production of Niacin and sulfa drugs. Related bases are also used for synthesis of Niacin, a chemical of wide application as a vitamin in food enrichment.

**GRADES:** Classified on the basis of maximum distillation range in Degree Centigrade (of each type), as 2°, 10°, 15°, 20°, 30°, 50° to meet varying requirements. In addition, semi-refined or commercial grades are supplied. All grades are shipped in steel drums.

*This is one of a series of advertisements presenting information on basic coal-tar chemicals.*

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# Coaltar Chemicals

Uncertain conditions prevailing in soft coal and transportation have not been conducive to any improvement in the production of coaltar chemicals during the past week. Steel output at 49.2 percent was only a fraction of a point above the preceding week. The only consolation here was that the downward tendency had been checked, temporarily at least. The basic chemical supply situation in several instances has reached the acute stage and its effect has been far-reaching in the consuming industries. Attempts to bring in stocks from the United Kingdom have not been successful to any important extent because only limited supplies were available for export shipment.

Benzol was tighter in the local market with special grades obtainable in certain quarters and not in others. Creosote oil, cresylic acid and naphthalene were critically short. Phenol was available under limitation to regular consumers. Synthetic xylol could be purchased but coaltar xylol was exceedingly scarce. Washington has not disclosed word about the submission of bids for the government's surplus toluol. Intermediates and dyestuffs in most instances reflected the stringency in basic products. In general, the serious supply shortage has kept the allocation method effective with producers in an attempt to equalize distribution.

Steel operations for the week beginning May 20 were scheduled at 49.2 percent of ingot capacity, compared with 48.9 percent in the previous week, according to the American Iron and Steel Institute. A month ago, the indicated rate was 73.6 percent. The present schedule is equivalent to the production of 867,100 net tons of steel ingots and castings, compared with 861,800 tons in the preceding week and 1,701,600 tons for the corresponding week in 1945.

## Basic Products

**Benzol**—Supply situation tighter and spotty with special grades obtainable in some quarters and not in others. Production, while relatively low, did not vary much from the previous week, but the movement of coal has made prospects decidedly uncertain regarding future production. Export inquiry continued active with the inventory position having a restricting influence on actual sales.

**Creosote Oil**—Lower production has forced the market's supply into a tighter position and left the situation critical. The railroads, utilities and industries where wood-processing is essential, will likely wait some time before their requirements can be covered. According to reports, urgent appeals have been made to the United Kingdom for exports, but so far only limited quantities have been available.

*London, May 24.*—The United States is asking urgently for creosote oil, also tar acids and naphthalene, but only limited quantities are available for export.

**Cresylic Acid**—Cutback in domestic production has prevented any improvement in buying conditions. Practically all domestic material has been allocated to regular consumers who are definitely short of stocks. In some producing quarters, OPA has granted an increase in the ceiling level to 96c.

## *Market Trends*

**Prices Advanced**
None

**Prices Reduced**
None

**Comparative Price Indexes**
(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 127.3 | 127.3 | 127.3 | 129.2 |

*(For Current Prices see page 9)*

gallon in carlots and 98c. in l.c.l. in drums, and to 90c. a gallon in tankcars works, freight equalized. Importations last week amounted to 1,487 drums. According to trade reports, most of this foreign material will be used for insecticide and disinfectant requirements.

**Naphthalene**—No improvement in production could be noted. Recent cutbacks have left output at a level considerably below demand and material has been allocated to manufacturers of phthalic anhydride and other regular consumers. In some quarters, producers have advanced prices while the acute shortage of stocks has created a firm tendency all around. Attempts to secure crude stocks from the United Kingdom have not been successful on account of a shortage in the foreign market.

**Phenol**—Buying interest has not relaxed and while current production has been unable to meet demand, the pressure for shipments kept the supply under constant pressure. Available stocks have been allocated to regular consumers with additional orders temporarily neglected. Some interests believe it will take from two to three months of full coal production to restore phenol output to normal dimensions.

**Toluol**—Up to this time no word from Washington has been received regarding bids for the government's surplus. According to trade reports, a number of bids were submitted. While the lacquer and protective coating industries could use this material at the price named, it is believed these consumers have not the storage facilities for taking any unusual amount of material.

**Xylol**—Coaltar xylol continued exceedingly short while synthetic remained in relatively free supply. Many consumers have been forced to take synthetic in order to keep their plants in operation.

*Chicago, May 24.*—Interest continued at a satisfactory level in the coaltar bases. Offerings were still rather restricted for most grades as a whole. Buying was along lines of fairly good proportions, wherever material could be found. Benzol was firm. Ruling prices exclusive of tax were:—Benzol, pure, in tankcars, freight allowed 15c. per gallon; 2-degree toluol, same basis, 27c.; 10-degree xylol, same basis, 29c.; industrial xylol, same basis, 26c.; solvent naphtha, same basis, 27c.; creosote oil, grade 1, 15½c. with stocks exceedingly short owing to the sold up condition of output.

## Hydrogenated Solvents

Inventories of these solvents have been reduced but most varieties were obtainable for prompt shipment in limited quantities. Production has been cutback owing to the critical situation prevailing in some of the most essential basic products.

## Coaltar Acids

**Anthranilic**—Limitation of stocks has restrained activity. Producers

### *Byproducts from Coal-Gas Retorts*

Production of byproducts obtained from coal-gas retorts in 1945, according to the Bureau of Mines follows.

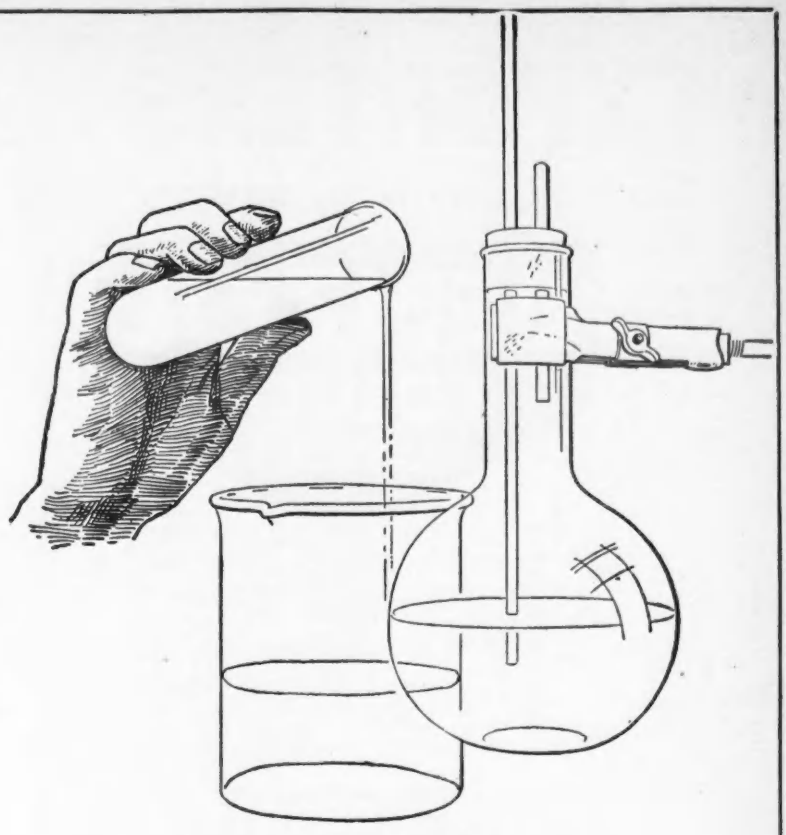
| Byproducts obtained— | | Horizontal retorts | Vertical retorts and gas ovens | Total |
|---|---|---|---|---|
| Tar— | | | | |
| Production | gals. | 7,267,925 | 12,568,915 | 19,836,840 |
| Sales— | | | | |
| For refining— | | | | |
| Quantity | gals. | 3,695,718 | 8,087,562 | 11,783,280 |
| Value | | $172,117 | $376,786 | $548,903 |
| For fuel— | | | | |
| Quantity | gals. | ..... | ..... | ..... |
| Value | | ..... | ..... | ..... |
| For other purposes— | | | | |
| Quantity | gals. | 4,568,041 | 4,488,439 | 9,056,480 |
| Value | | $169,584 | $236,847 | $406,431 |
| Stocks on December 31, 1945 | gals. | 1,990,841 | 1,951,566 | 3,942,407 |
| Per ton on coal charged | gals. | 12.63 | 15.13 | 14.11 |
| Ammonia liquor ($NH_3$ content)— | | | | |
| Production | lbs. | ..... | 1,230,307 | 1,230,307 |
| Sales | lbs. | ..... | 1,227,612 | 1,227,612 |
| Value | | ..... | $28,815 | $28,815 |
| Stocks on December 31, 1945 | lbs. | ..... | 119,023 | 119,023 |
| Per ton of coal charged | lbs. | ..... | 3.29 | 3.29 |

*For Late Market Developments, See Page 4*

**KOPPERS Coal Tar Chemicals**

*Benzol*
*Toluol*
*Xylol*
*Phenol*
*Cresols*
*Xylenols*
*Cresylic Acid*
*Frozen Neutral Oil*
*Tar Acid Oils*
*Pyridine*
*Picolines*
*Lutidines*
*Quinoline*
*Naphthalene*
*Creosote Oil*
*Sulphate of Ammonia*
*Phthalic Anhydride*

and other coal tar chemicals



**KOPPERS COMPANY, INC.**
TAR and CHEMICAL DIVISION
Pittsburgh 19, Pa.

**KOPPERS**

*The Industry that serves All Industry*

OPD—5-27-1946 45


have allocated shipments to regular consumers and are not eager to consider new business until the inventory situation improves.

**Cleve's**—Supplies below consuming needs. No improvement expected until production is restored to more normal dimensions.

**Fumaric**—Cutback production only sufficient to feed part of demand. Short shipments to makers of synthetic resins have accounted for most of the current movement.

**Gamma**—Stringency in basic materials held market exceedingly tight. Regular consumers have taken any stocks available.

**H**—Dyestuff inquiry active and absorbing material as rapidly as produced. Movement confined to regular consumers at present with export business neglected.

**Maleic**—Insufficient production has continued to tighten market position. Demand heavy for protective coatings and synthetic resins.

## Other Intermediates

**Anilin** — Inventories were lower with production cutback by shorter benzol shipments. There was more than enough demand to take care of the present supply and the market situation was tighter than a week ago.

**Diethylanilin**—Production has been allocated to regular consumers. Reduced inventories have made it essential to supply requirements from current output.

**Dinitrobenzene**—Somewhat out of balance at present owing to production difficulties. Suppliers not eager to make shipments to other than regular consumers at present.

**Diphenylamine**—Producers not encouraging additional business under present uncertainty surrounding output. Material being allocated to regular consumers.

**Metaparacresol**—Production limited and finding an active outlet to the synthetic resin industry. Doubtful if additional business can be considered until output is nearer normal.

**Phthalic Anhydride**—Stringency in crude naphthalene has kept production of phthalic anhydride at a relatively low level. Demand for use in plastics has not relaxed to any appreciable extent and producers have employed the allocation method in an effort to maintain equal distribution.

## Coaltar Colors

Inventories of dyestuffs were reported to be at lower levels than a month ago with assortments of classifications unbalanced as a result of shortages and cutback production. The tight supply of intermediates at present would appear to suggest a limitation on the output of colors. Inquiry was active for home and export while the availability of material and the delivery schedule of its producer have been regulating influences in current domestic buying policies. OPA has lifted ceilings on food coloring not containing sugar.

## Interior Dep't Posts For Davidson, Gardner

*OPD Washington Bureau*

President Truman has nominated C. Girard Davidson and Warner W. Gardner to the posts of Assistant Secretary of the Interior. Mr. Davidson, of Oregon, would succeed Oscar L. Chapman, who was recently elevated to Under Secretary, and Mr. Gardner, from New York, would succeed Michael W. Straus, who recently became head of the reclamation bureau.

## Owens-Illinois Purchase Of Kimble Approved

The Toledo District Court of the United States has approved acquisition by the Owens-Illinois Glass Company of the Kimble Glass Company, whose plants are located at Vineland, Pleasantville and Camden, N. J.; Chicago Heights, Ill.; Indianapolis, and Conshohocken, Pa. The acquisition is subject to approval of the directors of both companies and shareholders of Kimble.

## Pitts. Corning to Build

The Pittsburgh Corning Corporation will build two plants at Sedalia, Mo., for the production of glass block and foamglas. Estimated cost is $2,000,000.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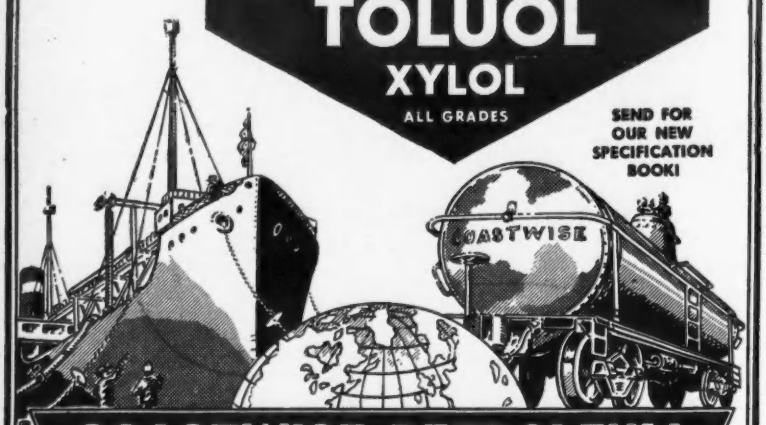


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Benzol, Motor
Toluol, Nitration Pure
Toluol, Industrial Pure
Xylol, Nitration
Xylol, Five Degree
Xylol, Ten Degree
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Cresol, Plasticizer Grade
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## *Prices Current*

*—Continued from page 33*

### Z

| | | | |
|---|---|---|---|
| Zein, bgs., 1,000 lbs., works | lb. | .25 - | — |
| smaller lots, works | lb. | .30 - | — |
| Zinc acetate, tech., bbls., dlvd. | lb. | .16 - | .17 |
| USP, bbls. | lb. | .26 - | .27 |
| kgs. | lb. | .29 - | — |
| Arsenite,[1] bgs., c.l., frt. alld. E. of Rockies | lb. | .11¾- | .12½ |
| l.c.l., same basis | lb. | .12½- | .13½ |
| Borate, bgs., c.l. | lb. | .12 - | — |
| Carbonate, tech., rubber-makers' grade, bbls., works | lb. | .09¾- | .10¾ |
| USP, precip., powd., bbls. | lb. | .35 - | — |
| dms. | lb. | .40 - | — |
| kgs. | lb. | .37 - | — |
| Zinc chloride, tech., fused, dms., c.l., works | 100 lbs. | 5.00 - | — |
| l.c.l., works | 100 lbs. | 5.35 - | — |
| gran., dms., c.l., works | 100 lbs. | 5.75 - | — |
| l.c.l., works | 100 lbs. | 6.50 - | — |
| solution, 50%, dms., c.l., works | lb. | .0315- | — |
| l.c.l., works | lb. | .04½- | .04½ |
| tanks, works | lb. | .0250- | — |
| USP, dms. | lb. | .30 - | .31 |
| jars | lb. | .35 - | .36 |
| Chromate (see Yellow, zinc). | | | |
| Cyanide, kgs., works | lb. | .32 - | .37 |
| Dust,[4] bbls., c.l., dlvd. | lb. | .1035- | — |
| l.c.l., works | lb. | .1135- | — |
| Fluoride, bbls. | lb. | .22 - | .30 |
| Hydrosulphite, dms., works | lb. | .16 - | — |
| Iodide, NF, bots. | lb. | 4.06 - | 4.75 |
| jars | | 4.40 - | — |
| Laurate, bbls. | lb. | .22 - | .32 |
| Metal,[1] (quotations in Protective Coatings market). | | | |
| Naphthenate, 8%-10% Zn, dms. | lb. | .16 - | .19½ |
| Oxide, pigment, dom., acicular, bgs., c.l., dlvd. | lb. | .07¼- | — |
| l.c.l., dlvd. | lb. | .07½- | — |
| American process, com'l, lead-free, bgs., c.l., dlvd. | lb. | .07¼- | — |
| l.c.l., dlvd. | lb. | .07½- | — |
| leaded, 5%, bgs., c.l., dlvd. | lb. | .07½- | — |
| l.c.l., dlvd. | lb. | .07¾- | — |
| leaded, 35% or more, bgs., c.l., dlvd. | lb. | .07 - | — |
| l.c.l., dlvd. | lb. | .07¼- | — |
| French process, com'l, lead-free, bgs., c.l., dlvd. | lb. | .07¼- | — |
| l.c.l., dlvd. | lb. | .07½- | — |
| green seal, bgs., c.l., dlvd. | lb. | .09 - | — |
| l.c.l., dlvd. | lb. | .09¼- | — |
| Zinc oxide, pigment, dom., French process, red seal, bgs., c.l., dlvd. | lb. | .08½- | — |
| l.c.l. | lb. | .08¾- | — |
| white seal, bgs., c.l., dlvd. | lb. | .09¼- | — |
| l.c.l., dlvd. | lb. | .09¾- | — |
| USP, ctns., c.l. | lb. | .10¼- | — |
| l.c.l. | lb. | .10¾- | — |
| Zinc oxide Pac. Coast prices ½c. higher; bbl. prices ¼c. higher than bgs. | | | |
| Resinate, fused, 1% Zn. lump, precipitated, 8.40% to 9% Zn, powd., dms. | lb. | .14½- | .15 |
| Silicofluoride, bbls. | lb. | .15 - | .16 |
| Stearate, tech., ctns., c.l., frt. equald. | lb. | .29 - | — |
| smaller lots, same basis. | lb. | .30 - | .31 |
| USP (same prices as tech.). | | | |
| Sulphate, cryst., bgs., c.l., works, frt. alld. | 100 lbs. | 3.40 - | — |
| l.c.l., same basis | 100 lbs. | 4.15 - | — |
| flake, bgs., c.l., same basis | 100 lbs. | 3.80 - | — |
| l.c.l., same basis | 100 lbs. | 4.55 - | — |
| Zinc, sulphate, powd., bgs., c.l., same basis | 100 lbs. | 5.35 - | — |
| l.c.l., same basis | 100 lbs. | 6.10 - | — |
| Zinc sulphate, in bbls., 25c. higher. | | | |
| Sulphide,[1] pure, bgs., c.l., dlvd. | lb. | .05¾- | — |
| l.c.l., dlvd. | lb. | .06½- | — |
| bbls., c.l., dlvd. | lb. | .05½- | — |
| l.c.l., dlvd. | lb. | .06¾- | — |
| Barium pigment,[1] bgs., c.l., dlvd. | lb. | .0560- | — |
| l.c.l., dlvd. | lb. | .0585- | — |
| Calcium pigment,[1] bgs., c.l., dlvd. | lb. | .0560- | — |
| l.c.l., dlvd. | lb. | .0585- | — |
| Fluorescent pigment,[1] works, frt. alld. | lb. | .90 - | 1.00 |
| Zinc sulphide, magnesium pigment,[1] bgs., c.l., dlvd. | lb. | .05¾- | — |
| l.c.l., dlvd. | lb. | .06 - | — |
| Zinc sulphide and pigments, Pac. coast prices ¼c. higher; bbl. prices ⅛c. higher than bgs. | | | |
| Sulphocarbolate, NF, bbls., dms. | lb. | .28 - | .30 |
| Tallate, 5% Zn, dms. | lb. | .09¾- | — |
| Yellow (see Yellow, zinc). | | | |
| Zinc-ammonia chloride, dms., c.l., works | 100 lbs. | 5.65 - | — |
| l.c.l., works | 100 lbs. | 6.70 - | — |
| Zinc - cadmium sulphide, fluorescent, cns., works, frt. alld. | lb. | 2.00 - | 2.60 |
| Zinc-iron oxide pigment, bgs., c.l., dlvd. | lb. | .06 - | — |
| l.c.l., dlvd. E. of Rockies, | lb. | .06¼- | — |
| Pac. cst. | lb. | .06½- | — |
| ex whse., Pac. cst. | lb. | .07 - | — |
| Zirconium acetate, solut., bbls., works | lb. | .25½- | — |
| Hydride, cns., works | lb. | 7.00 - | 8.00 |
| Nitrate, bgs., works | lb. | 3.00 - | 4.00 |
| Oxide, 88%, grd., bbls., c.l., works | lb. | .22½- | — |
| l.c.l. | lb. | .22¾- | — |
| white, 98½-99%, grd., kgs., works | lb. | .50 - | — |
| milled, electric, fused, 2,000-9,999 lbs., works | lb. | .46 - | — |
| 500 lbs. and less, same basis | lb. | .46½- | — |
| Oxychloride, crust., bbls., 5 tons, works | lb. | .29½- | — |
| Sulphate, basic, cake, bbls., c.l., works | lb. | .18 - | — |
| l.c.l., works | lb. | .18½- | .20 |
| smaller lots, works | lb. | .30 - | .31½ |

## Agricultural Economics Bureau Chief Resigns

*OPD Washington Bureau*

Harold B. Tolley has resigned as chief of the Bureau of Agricultural Economics to become chief economist and director of the division of economics and marketing in the Food and Agricultural Organization of the United Nations.

Mr. Tolley had been associated with the Department of Agriculture since 1915, except for five years as director of the Giannini Foundation at the University of California in Berkeley. He has been chief of the BAE since 1938.


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# Agricultural Chemicals

Inventories were practically exhausted in the basic fertilizer chemicals at the close of the month. An expanded demand and a cutback in production were primary factors in throwing the market out of balance. Agricultural operations in most areas have now shifted from initial tilling of the soil to top-dressing. This latter stage is just beginning to fade in the South where demand has exceeded all previous records. According to advices from Atlanta, oil mills that operate fertilizer plants have been endeavoring to exchange, on an even basis, one ton of cottonseed meal for one ton of ammonia sulphate or two tons of cottonseed meal for one ton of nitrate of soda. At Baltimore, demand for superphosphate was reported urgent with producers complaining over delayed phosphate rock deliveries and asserting there is not enough material to meet requirements.

Potash production in the first quarter made a satisfactory showing with deliveries recording a moderate increase over the same period in 1945. Nitrate of soda has continued short of demand while a decided drop in ammonia sulphate production has caused an appreciable shrinkage in shipments. Output of packing-house by-products was definitely below normal while higher prices have eliminated some materials from the fertilizer list. No additional sales of fish scrap were reported last week and it looked as though producers were satisfied to wait until the major part of standing contracts are covered before taking on additional business. Production of nitrogenous material, synthetic tankage is heavily under contract. Concerning the insecticide and fungicide chemicals, complications from the soft coal and other labor strikes have proved serious in many varieties and the present outlook does not favor the building up of inventories.

## Nitrogenates

**Ammonia Nitrate**—United Kingdom has allocated 25,000 tons to UNRRA to be shipped to French North Africa and to the United States and United Kingdom zones in Germany. Domestic production in March amounted to 42,860 tons, compared with 38,543 tons in February, according to the Bureau of the Census.

**Ammonia Sulphate**—Producers have urged OPA to grant an increase in the ceiling price from $4.00 to $8.00 a ton to encourage production and relieve the industry of the hardship imposed by advancing manufacturing costs. Cutback in output has left the market practically bare of stocks at present.

**Dried Blood**—Absence of inventories has checked trading. Establishment of higher ceiling prices has not influenced any freer offerings from packing-houses.

**Hoof Meal**—Like other packing-house by-products, the current supply is definitely short of demand. Only an occasional carlot has reached the market.

**Soda Nitrate**—More demand than supply at present. Buying interest reported exceedingly active with market position for both domestic and imported definitely tight. Oil mills who operate fertilizer plants in the South have offered two tons of cottonseed meal for one ton of nitrate of soda.

**Tankage**—Continued limited offerings have restricted trading. Cutback in packing-house production has kept the market almost bare of stocks.

## Phosphates

**Phosphate Rock** — Shipments of phosphate rock have been sufficiently heavy to prevent the building up of stock-piles at the mines and complaints continue to be heard regarding delayed deliveries. Ordinarily, a breathing spell could be expected at this period of the year but to date, there has been no important relaxation in demand and the market presents the same tight appearance recently noted.

**Superphosphate**—Demand for superphosphate has not been satisfied and buyers have experienced difficulty in securing additional quantities for nearby shipment. The soft coal shortage has interrupted production to some extent and the market remained in a definitely tight position at the close of the month. Contract prices for the new season have not been announced.

Cuban imports of superphosphates in 1945, entirely from the United States, amounted to 34,185 metric tons, according to preliminary customs data.

## Potashes

No announcement of contract prices was made last week and no additional word came from CPA regarding allocation. An increase of 7 percent in deliveries of potash salts and 12 percent in K2O was noted during the first quarter of 1946 over the same period in 1945, a complete report will be found on another page of this issue.

London advices state that because the potash deposits discovered in North Yorkshire, United Kingdom, during oil prospecting, are at so deep a level, the company holding the concession has not proceeded further with drilling operations. Considerable potash is believed to exist in the area, but none appears to be near enough to the surface to make extraction profitable.

## Markets at Other Centers

*Atlanta, May 24.*—Demand for mixed fertilizer slowing down a little because planting season nearly over. Demand, however, for top dressing seems unlimited and it is improbable all requirements can be met due to shortage of solid nitrogen.

*Chicago, May 24.*—Call for fertilizer products held up well, and apparently cannot be satisfied completely. Indications are that supplies are still short of needs. Blood attracted some attention. Buying of tankage was fairly good. Bone materials held their own.

*Los Angeles, May 24.*—All agricultural chemicals continue in poor supply. Little trading was reported. All prices held firm.

## Insecticides

Complications resulting from the soft coal strike and transportation problems have created a shortage in a majority of the fungicides and insecticides. At present the supply outlook is described as favorable for distribution in carbon bisulphide, chloropicrin, cyolite and pyrethrum. Calcium arsenate is reasonably adequate for early crops and lead arsenate is in good supply now but domestic production of arsenic is practically at a standstill and pig lead is critically short. Cyanide was available but is faced with a serious container scarcity. Pyrethrum stocks appeared adequate. Thiocyanates and other extenders were also in fair supply. In the remainder of the list an apparent shortage is current with the outlook decidedly uncertain for the restoration of inventories. Nicotine sulphate is only obtainable for the most urgent requirements with producers allocating deliveries in cooperation with the government. Heavy shipments of rotenone roots are reported to have left South America and may be expected to relieve the situation in July.

## Sulphur and Pyrites

Production of sulphur is one of the few materials not affected by the soft coal strike. Enough material to cover requirements for practically a month was shipped when the recent freight embargo threatened the movement from mines but in general the demand has been of satisfactory dimensions. There was no important change in the pyrites situation. Prices remained firm.

### *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

None

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 71. 8 | 71.8 | 71.8 | 71.8 |

*(For Current Prices see page 9)*

*For Late Market Developments, See Page 4*


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# Drugs and Fine Chemicals

Uncertainty, unrest, and undeniable concern prevailing last week in the drug and fine chemical market existed despite the fact that strikes were temporarily suspended by coalminers and railroad brotherhoods. Coal was mined and trains were run solely by permission of the union leaders. It will be many weeks after the strikes are ended before the setback to industrial activity is overcome.

Foreign citric acid sailed into the domestic market last week and 400 casks of an article not imported probably since 1928 reached here from Palermo, Italy. Since the duty is 17c. per pound and the price of domestic acid is 3c. more than the duty, the guess in the citric acid trade was that the acid will be reexported.

Tightness prevailed in the bismuth salts market, the result of small supplies of the metal and its careful, almost stingy allocation among the needy manufacturers. Prices here did not reflect the recent rise in London quotations on metal. Revised figures on castor bean imports showed arrivals from January 1 to May 24 to be running 42,510 bags behind those in the corresponding time a year back. To add to the difficulty in raw material, demand for oil ran high and production dropped sharply when the plant of one of the largest makers was struck.

Codliver oil arrived in quite a flood from Norway and Iceland without breaking the firm price structure which is founded on a basis of substantial strength of oil in the producing countries where industrial demand for oil can readily absorb any surplus which extra large production this year might cause. Menthol remained firm but lacked further advance—a rise which already is substantial. Quicksilver was not in liberal supply and steady prices prevailed as imports from Mexico resumed.

**Acid, Citric**—From Palermo, Italy came 400 casks of citric acid into the port of New York. Reports of the Department of Commerce stopped listing arrivals of citric acid in 1929, or, at least, the last year the department reported arrivals was in 1928, when it listed importations totaling 63,834 pounds, practically all from Italy. The tariff of 1930 established a duty of 17c. per pound on imports and that tariff remains in force today. Attempts failed to discover if the 400 casks arrived last week were destined for consumption in this country, or if they came in bond and were to be re-exported to some foreign country. Since the domestic makers' price for citric acid is minimum at 20c. per pound in carlot quantities—being 3c. above the U. S. customs duty—reexport would seem to be the most likely fate of this particular arrival. This is the more likely because of the much improved supply of domestic made citric acid now available for distribution to consumers.

**Acid, Tartaric**—Makers of this acid in this country are due to receive their share of a further importation of crude tartar. An arrival totaling 3,432 bags reached here from Bordeaux, France. The acid market was active along routine lines and domestic production moved without much interference from imported goods, arrivals of foreign made tartaric acid having decreased of late.

**Alcohol**—The senate finance committee has reported favorably on S. J. Res. 162 extending for seven months the period of time during which alcohol plants are permitted to produce sugars or syrups simultaneously with alcohol. Passage of the resolution would continue the authority until February 1, 1947. Beverage alcohol production June-July, will be held down to the equivalent of three days' mashing capacity per month. Not more than 2,500,000 bushels of grain may be used in any of these months. The ban on using wheat and wheat products, together with restrictions on other grains, will also continue.

**Argols**—Conditions suggest continuation of a larger movement of this item from foreign parts to this country. The gain over the past several weeks has been substantial and manufacturing consumers of argols figure materially to improve deliveries of their manufactured products if the gain be maintained.

**Bismuth Metal and Salts**—Shortage of metal and its strict control in consumption channels accounts for a tightening in available supplies of bismuth salts. Reserve is shown by all producers and the demand remains normally active.

**Brucine**—Stocks were increased to the extent of five cases that reached here from London for the account of a domestic manufacturer of fine chemicals. Receipts from the United Kingdom and Canada in January were 568 pounds and 63 pounds respectively, comparing with 2,500 pounds received from Canada in December, 1945.

**Caffeine**—Imports from Brazil and Canada in January amounted to 74,920 pounds and 400 pounds respectively. The total of 75,320 pounds is an increase of 196 percent over the December, 1945, import total of 25,440 pounds. During the past week, 8,001 bags of teawaste reached here from Calcutta—beneficial to two producers of caffeine.

**Castor Oil**—The plant of one large maker was strike-bound last week, thus cutting down the amount of oil available to consumers. The producer affected stated he regretted his inability to fill orders on hand or accept further orders for the duration of the strike. Based on a restudy of data concerning arrivals of castor beans as reported here has supplied some missing figures that change the overall picture in castor bean arrivals since January 1. Imports, Jan. 1—May 24, 1946, were 678,910 bags of beans arrived, weighing 101,836,500 pounds. In the corresponding period in 1945, 721,420 bags were imported, weighing 108,213,000 pounds. Thus, imports of beans to date are 42,510 bags, or 6,376,500 pounds, less than to the same date in 1945. A Department of Commerce report states that 1946 production in Brazil is expected to be larger than in recent years. However, importers here declare that the old trouble of getting beans from the interior points to the Brazilian shipment ports is rampant and to this time has offset the potential effect of any real increase in the Brazilian crop. The 1945 crop ran around 182,000 tons in the department's estimate.

*Chicago, May* 22.—Castor oil prices, are: — Cold pressed, U.S.P., 15c. per pound, returnable drums, carlots; 15¾c., drums, less than carlots; tanks, 14¼c.; No. 3, extracted, 14¾c., drums, carlots; 15c., drums, less than carlots; 14c., tanks.

**Codliver Oil**—Despite huge arrivals last week, prices continued ruggedly firm and strictly in line with controlled prices in foreign countries shipping to the United States. Arrivals last week were 1,938 drums-barrels from Reykjarvik, Iceland, and 852 drums from Norway. Demand ran to excellent totals. The factor behind foreign market price strength is the large industrial requirements—especially for making margarine for consumption in a part of the world where butter and its substitute are scarce.

**Emetine Hydrochloride** — January imports totaled 90 pounds, according to the Department of Commerce, which compared with but two pounds imported in December, 1945.

**Fish Liver Oils**—The supply runs behind demand for both finished oil or livers for processing. Production of vitamin A in December was 5.1 trillion units, comparing with 4.6 trillions produced in December, 1944. Total production in 1945 was 62.6 trillion

*For Late Market Developments, See Page 4*

## *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

None

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 211.8 | 211.8 | 210.4 | 221.4 |

*(For Current Prices see page 9)*

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U.S.P. GLYCERINE
PACKED IN DRUMS, CANS & GLASS
PROCTER & GAMBLE
*Largest Producers and Refiners of*
Chemically Pure Glycerine
*Also other grades—Stocks in principal cities*
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CAROTENE
POTENCIES UP TO 1,350,000 UNITS PER GRAM
Now used in the enrichment of flour, bread, milk, butter, cakes, soup, salad dressing, margarine, pastries and as a source of vitamin A in many pharmaceutical products.
BARNETT LABORATORIES, 6258 CHERRY AVENUE LONG BEACH 5, CALIF.

EDWAL
SPECIAL CHEMICALS
*of Assured Quality*
ALLANTOIN
(*medicinal*)
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(*photographic developer, intermediate*)
POTASSIUM THIOCYANATE NF and REAGENT
(*medicinal and analysis*)
URIC ACID
(*analysis*)
★ Send for the Edwal Price List No. 10-6 listing over 80 other chemicals.
THE EDWAL LABORATORIES, INC.
732 FEDERAL STREET, CHICAGO 5, ILLINOIS

units, against 73.8 trillions in 1944—a decrease of 15 percent.

*San Francisco, May* 22.—Demand continues to run ahead of production in the vitamin oil market. All potencies are being sought.

**Glycerin**—A strong and active market continued under-supplied and there was reason to expect that foreign shipments of glycerin will drop sufficiently in the future materially to affect adversely the supply of glycerin available for manufacturing consumers of all kinds. It seems hardly probable that domestic refiners can get crude glycerin in quantities sufficient to permit them an expansion in their output of refined in an amount offsetting the probable drop in importations.

*Chicago, May* 22.—Glycerin prices are:—C.p., tanks, 18c.; drums, c.l., 18¼c.; l.c.l., 18¾c.; high gravity, tanks, 17½c. to 18c.; drums, c.l., 17½c. to 18c.; l.c.l., 18c. to 18¾c. Chemically pure, 18c. per pound, tankcars, 18½c., drums, carlots; 18¾c., drums, less than carlots.

**Menthol**—Production of peppermint oil for making menthol in Brazil has been estimated at 300 tons in 1946. The estimate predicts a decrease of menthol yield from the high figure of 60 percent in the two previous crops to 30-40 percent in 1946. Production in Sao Paulo in the season of 1944-45 reached 1,200 to 1,500 tons of oil, or 800 to 900 tons of menthol. The expected drop in yield in 1946 is explained by the statement that the menthol in the old plants of the 1944-45 crop season will be small, thus reducing the average.

**Milk Powder**—The Production and Marketing Administration of the Department of Agriculture on May 2 sold 83,200 pounds of skimmed milk powder unfit for human consumption at 10½c. per pound. During the period May 3-7, it bought 1,225,000 pounds of spray process skimmed milk powder, 422,000 pounds of roller process, and 510,000 pounds of whole milk powder. Prices paid ranged 13.82c. to 37c. per pound.

**Quicksilver**—Imports of metal from Mexico were resumed last week during which period 340 flasks reached here from Vera Cruz and Tampico. The spot market remained firm.

*San Francisco, May* 22.—The quicksilver market here this week was steady, and prices remained unchanged. However, little spot metal was available. Metal was being quoted between $103 and $105 per flask, f.o.b. this city.

**Quinine**—January imports of sulphate totaled 10,000 ounces from the Netherlands. It was the first arrival since October, 1944. Also from the Netherlands came 20,000 ounces of quinidine, a drop of 56 percent from the December, 1945, arrival.

**Strychnine**—January imports from Canada slumped 53 percent from the December, 1945, figure. They totaled 1,910 ounces.

**Theobromine**—Imports from Brazil in January were 31,355 pounds, or an increase of 120 percent in the arrivals from there in December, 1945.

## *Trade Briefs*

**William J. Stange** Company, manufacturer of food colorings, Chicago, will construct a new plant and general office building in Maywood, a suburb of Chicago.

**Winthrop Chemical** Company, New York, is issuing a third edition of "Recent Research on Tryptophane," which was prepared by its special chemicals division. The current edition brings the review up to February, 1946, and includes 159 references.

MUNN'S GENUINE COD-LIVER OIL MADE IN NEWFOUNDLAND
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NEWFOUNDLAND
MEDICINAL NON-FREEZING
COD LIVER OIL
Largest Manufacturers of Cod Liver Oil in Newfoundland for Over Fifty Years
*Wire for lowest prices*
W. A. MUNN & COMPANY, LTD.
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COLCHICINE
DIGITALIN
EPHEDRINE
ESERINE
HOMATROPINE
HYDRASTINE
HYOSCINE
HYOSCYAMINE
LOBELINE
OUABAIN
PICROTOXIN
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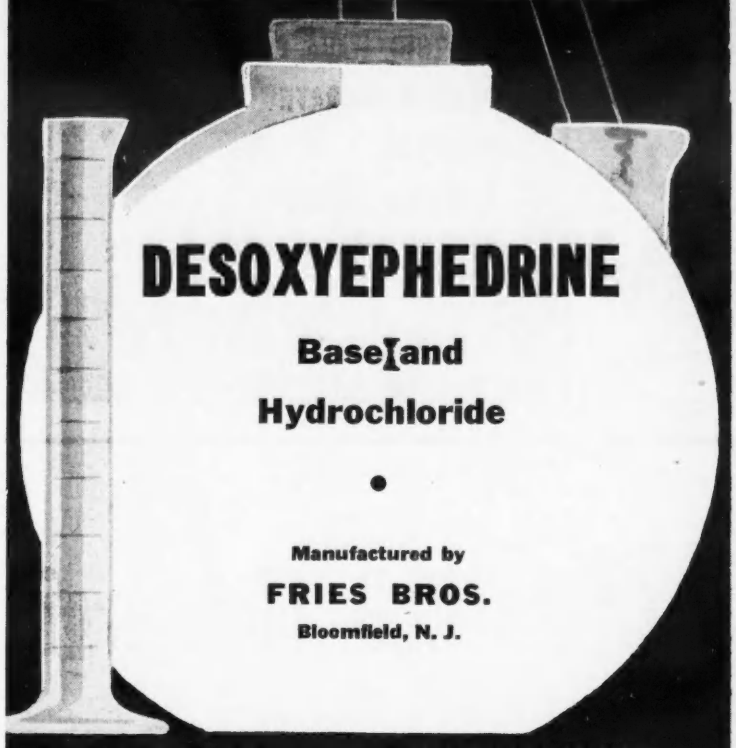

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Base and Hydrochloride

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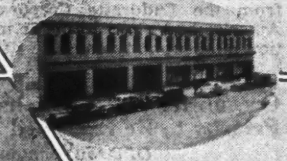

## CHEMICALS
Pharmaceutical—Industrial
DRUGS, OILS, VITAMINS, etc.
Import & Export Merchants
Buying Agents For Leading Foreign Houses
Selling Agents For American Producers
SINCE 1910

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MENTHOL CRYSTALS, U.S.P.
HYOSCINE (Scopolamine) HYDROBROMIDE, U.S.P.
ARECOLINE HYDROBROMIDE, N.F.
SULFA DRUGS
SULFUR PRECIP., U.S.P. (*Sylvania Brand*)
OIL CAMPHOR WHITE SYNTHETIC
LYCOPODIUM, U.S.P.
PAPAIN
SPERMACETI, U.S.P.
HAARLEM OIL
QUINCE SEED
IRRADIATED ERGOSTEROL
BEESWAX, U.S.P. *Yellow & Bleached*
LANOLIN, U.S.P. *Hydrous & Anhydrous*
PREPARED CALAMINE, N.F.
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## CHAS. L. HUISKING & CO., INC.
155 VARICK STREET, NEW YORK 13, N. Y.
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SINCE 1872

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PURE NORWEGIAN
## COD LIVER OIL USP
*"The Choice of Careful Bottlers Everywhere"*

**Standardized • Vitamin Tested • Oils of All Potencies**

For prompt shipment from our large New York stocks. Direct shipments from our Norwegian Refinery to all parts of the world.

VITAMINE BRAND OILS, natural and fortified Cod Liver Oil for Poultry and Animal Feeding
DEVOLD VITAMIN A & D FEEDING OILS Various Potencies
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MEETING REQUIREMENTS OF INTERNATIONAL PHARMACOPOEIAS
ALKALOIDS of AMERICAN MANUFACTURE
## SANTONINE COMPANY OF AMERICA, INC.
155 VARICK STREET, NEW YORK 13, N. Y. — Cable Address SANTONICUS, N. Y.

### Farber Products Co. Formed in N. Y.

Samuel I. Farber, formerly assistant to the vice-president in charge of chemicals for Phillips Bros., Inc., importer and exporter, New York, has organized the Farber Products Company in New York, to serve as agent, distributor and general trader in fine and industrial chemicals and related items.

FOR QUALITY AND SERVICE

ARSENIC, White, Powder
CERIUM NITRATE
RUMETAN
THORIUM NITRATE
TITANIUM POTASSIUM OXALATE

P&B
SINCE 1900

Pfaltz & Bauer, Inc.
EMPIRE STATE BUILDING, NEW YORK

### United Drug Votes To Split Stock

Stockholders of United Drug, Inc., have approved an increase in authorized capital stock to 5,000,000 shares of $2.50 par each to provide for a split in the present 1,400,560 outstanding shares of $5 par capital stock on a two-for-one basis.

They have also ratified a change in the corporate name to United-Rexall Drug, Inc.

### Wm. S. Merrell Adds Getman, Sharp to Staff

Frank Getman, recently released as a Major from the Air Forces after forty-six months' service, has been named a director and secretary of the Wm. S. Merrell Company, pharmaceutical manufacturer, Cincinnati. Dr. George O. Sharp, since 1942 a member of the American Medical Association chemical laboratory, has been appointed assistant chief chemist of the company.

### *Wins Merit Medal*

**George W. Merck, president of Merck & Co., manufacturing chemist, Rahway, N. J., has been presented with a Medal of Merit, the nation's highest civilian award, for his direction of the War Research Service. Mr. Merck was a special consultant to the Secretary of War on biological warfare from June 15, 1944, until October 26, 1945, and has been on the chemical advisory committee of the Army and Navy Munitions Board since 1939.**


# SHEFFIELD Chemurgic Products

## Century-old name in milk
## . . . latest word in milk chemicals

*This means you now have available milk chemicals outstanding in dependable chemical performance—products of the world's largest dairy—and backed by a rare wealth of experience. With* SHEFFIELD *Milk Chemicals you profit by three substantial advantages: lower cost . . . highest efficiency . . . broader service.*

***"New Process" Casein****★*—superior grade industrial casein unusually high in quality and uniformity. Available in 76-lb. multi-wall bags. F.o.b. Norwich, N. Y., Boonville, N. Y., or Vergennes, Vt., as inventory permits shipment. (Gross for Net.)

***"High pH" Casein****★*—specially processed casein less acid than "New Process" Casein. Excellent for emulsions and dispersions. Particularly recommended as a protein emulsifier in the production of synthetic rubber and in the emulsifying of synthetic latex. In 76-lb. multi-wall bags. F.o.b. Norwich, N. Y. (Gross for Net.)

***"High Nitrogen" Casein****★*—a specially prepared casein particularly free from non-protein impurities. In 76-lb. multi-wall bags. F.o.b. Norwich N. Y. (Gross for Net.)

***"De Vitaminized" Casein****★*—an edible protein of high nutritional value and balance, minimum vitamin content. In 75-lb. multi-wall bags. Freight allowed in continental U. S. A.

***Milk Sugar (Lactose)***—U.S.P. and edible grades. Highest quality products in their respective grades. In 200-lb. wooden barrels. F.o.b. Hobart, N. Y.

***Calcium Lactate***—U.S.P. edible calcium in a form particularly desirable for its assimilability. In 200-lb. fibre drums. Freight allowed in continental U. S. A.

***Sodium Lactate—50% refined***—edible, water-white product highly hygroscopic, with physical properties similar to glycerine. In 55-gallon barrels. F.o.b. Norwich, N. Y. ***50% technical***—non-edible, pale brown product, valuable wherever edibility and water-white qualities of 50% refined sodium lactate are not required. In returnable 55-gallon drums. F.o.b. Norwich, N. Y.

***"N-Z-Amine"****★*—Tryptic digest of casein. Contains, in form of *amino acids*, with a portion of the respective peptides, etc., all those in the original protein—including those now believed to be essential to human nutrition. Also valuable as a bulk peptone in the production of micro-biologicals. In 100 and 300 lb. fibre drums. F.o.b. Oneonta, N. Y.

***"N-Z-Case"****★*—A bacteriological laboratory peptone of high quality made from a tryptic digestion of casein. Relatively high in tryptophane content. "N-Z-Case" is noted in the Methods used by the Food and Drug Administration for the *assay of penicillin*. "N-Z-Case" conforms to the specification for "Pancreatic Digest of Casein" indicated in the National Institute of Health circular titled *"Culture Media for the Sterility Test."* Sold only in 1-lb. bottles. F.o.b. Oneonta, N. Y.

★Trade-marks of Sheffield Farms Company, Inc.

*Detailed information and samples of any of these products are yours simply for the asking. Write, wire, or phone.*

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**SHEFFIELD** — *century-old name in milk — latest word in milk chemicals*

DIVISION OF NATIONAL DAIRY PRODUCTS CORPORATION


### Hormorganic Corp. Now Owned by Daugherty

Hormorganic Corporation, manufacturer and distributor of hormones and organic chemicals, Jamaica, N. Y., has been reorganized, with Joseph M. Daugherty, former secretary-treasurer, now president-secretary and sole owner. Herman Meyer, former president, is no longer connected with the firm.

Joseph F. Ryan has been appointed treasurer of the company, and Bernard P. McCormick, recently discharged from the Air Forces as a Major, is now general manager.

The company announces it has purchased a plant in Cliffwood, N. J., from the Endurette Corporation of America and plans to put it in operation in about sixty days.

### Greenbrier Hotel Purchase Priority to Be Exercised

*OPD Washington Bureau*

The town of White Sulphur Springs, W. Va., has notified Lieutenant-General E. B. Gregory, War Assets Administrator, that it intends to exercise its priority right as a municipality in purchasing the famous Greenbrier hotel property, which was acquired by the War Department in 1942 and converted into a general hospital. The property will be declared surplus to military requirements June 30.

The claim of the municipality was made after General O'Brien informed the representatives of the Chesapeake & Ohio Railroad that the railroad as former owner had no priority to reacquire the hotel. Although the railroad has stated that it is not waiving any right to claim priority, the town has made it clear that it would not have moved to act under the municipality preference had WAA recognized a claim by the railroad. It was brought out that the town was acting on its own behalf and not for the railroad.

If such acquisition is consummated, General O'Brien pointed out, the municipality must pay fair value for the property as of the sale date.

## *Trade Briefs*

**Jan Berlage** has incorporated the New York export and import firm of which he is president. It is now known as J. Berlage, Inc.

**Schering Corporation,** pharmaceutical manufacturer, Bloomfield, N. J., has donated more than $40,000 worth of drug products and medical supplies to the Philippine National Red Cross.

**Paul O. Abbe, Inc.,** employees recently honored Mr. Abbe with a dinner party and presented him with a bronze plaque on the occasion of the completion of his fiftieth year as a manufacturer of ball and pebble mills.

*50,000 gallons per month*

# ACETONE 90%

# METHANOL 10%

**Dry**

**Specific Gravity .794**

*Continuous Production*

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## BIRCH-KLINE CO., Inc.

**165 Broadway**

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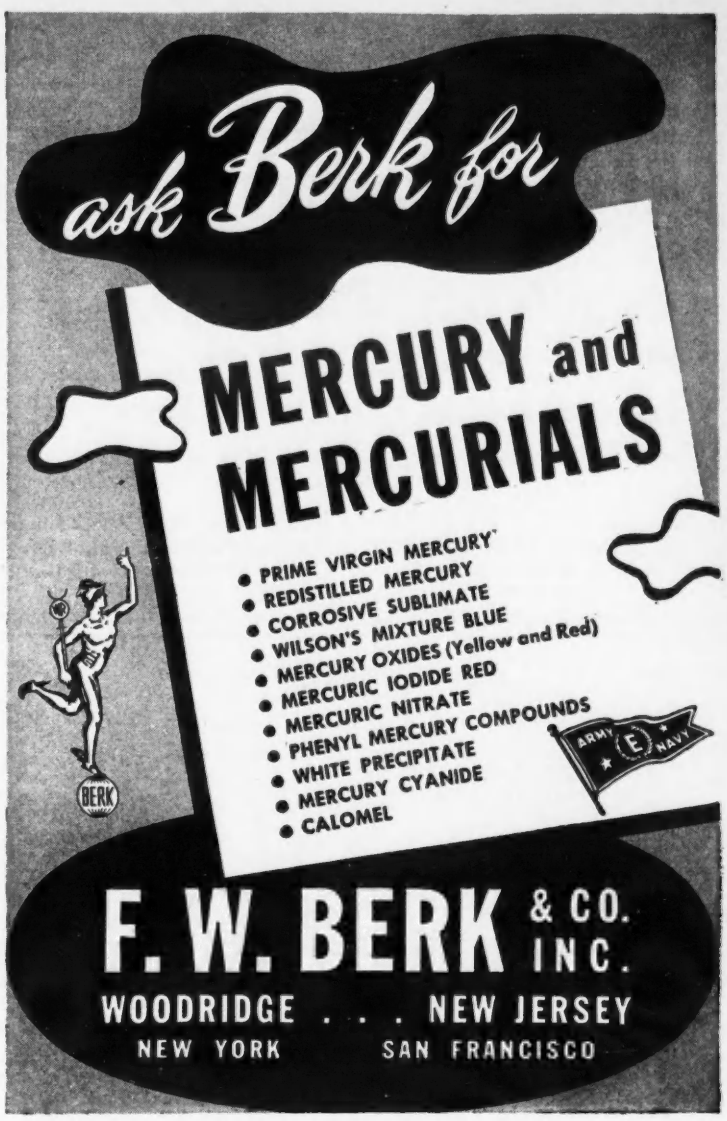
**Telephone: BArclay 7-2969**




OPD—5-27-1946 53

# ARRHENAL LAMEX

**Disodium Methyl Arsonate**

$Na_2CH_3AsO_3 . 6H_2O$

**After years of research we have succeeded in manufacturing a product meeting the highest standards of the French and the Brazilian Pharmacopoeias.**

**SPECIFICATIONS**

**Description**—White odorless crystalline powder.

**Assay**—Contains not less than 99% $Na_2CH_3AsO_3$ when dried at 150° C to constant weight.

**Solution**—A solution of one gram in 10cc of distilled water is clear and colorless.

**Purity**—Free of Chlorides, Sulfates, Barium, Carbonates and Cacodylates.

**Water of Crystallization**—Equivalent to $6H_2O$.

---

## LAMEX CHEMICAL CORP.

494 Hunts Point Ave. New York 59, New York

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# MAGNESIA

## MAGNESIUM OXIDE

*Technical and U.S.P. Grades*

**EXTRA LIGHT**

**The *original* Neoprene Type**

A supreme quality product. Extremely fine state of division. Very Active. Calcined from carefully selected Carbonate. Uniform quality maintained through rigid laboratory control of modern production methods.

**HEAVY**

Many special types available for various specific uses. We can supply Heavy Magnesia finely ground to meet exacting screen test specifications or unground in granular form for chemical use. Shipments from stocks in Philadelphia, New York City, and Chicago.

PACKAGES — Specially designed to protect contents from moisture and air. Corrugated carton with special waterproof liner, and inner paper liner. Five-ply multi-wall bag, including asphalt liner. Special Export packages.

## MAGNESIUM CARBONATE

*Technical and U.S.P. Grades*

## GENERAL MAGNESITE & MAGNESIA COMPANY

*Specialists in Magnesia*

**MANUFACTURERS — IMPORTERS — DISTRIBUTORS**

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## Sterling Drug Honors 140 Veteran Employees

Sterling Drug, Inc., New York, presented gold wrist watches to 140 employees who have been with the company more than twenty-five years at a dinner in the Biltmore hotel, New York, last week. Among those honored was Edward S. Rogers, chairman of the board, who has been with the company forty-nine years. James J. Hill, jr., president, made the presentations.


# FINE ABSORPTION BASE

## Creams Can Be Produced

# AT LOWER COST!

**LANAETEX** announces two absorption bases worthy of every cosmetic and pharmaceutical manufacturer's consideration. Designed for use in:

**CREAMS ★ LOTIONS ★ EMULSIONS ★ OINTMENTS**

**WRITE TODAY** for detailed compounding information, generous samples and our very attractive prices.

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**THE LANAETEX PRODUCTS INC.**
"SPECIALISTS IN LANOLIN REFINING"

*Sold Exclusively by:*
**LANAETEX PRODUCTS SALES CO.**
151-157 3RD AVENUE, Dept. SB
ELIZABETH 1, NEW JERSEY


## *Recent Imports*

*—Continued from page 4*

CHICLE GUM—73 bls, Far Eastern Rubber Importer

CINNAMON—106 bls, Wessel, Duval & Co; 14 bls, Holland Colombo Trade Society; 693 bls, C M Van Sillevoldt; 1,151 bls, Volkart Bros; 1,455 bls, Catz American Co; 4,736 bls, C T Wilson & Co

CITRIC ACID—400 cks, Sadex Foreign Trading Corp

COCOA RESIDUE—3,200 bgs

COCOABUTTER—2,540 bgs, A C Israel Commodity Co

CODLIVER OIL—500 dms, National Oil Products Co; 500 dms, Bankers Trust Co; 973 dms, Upjohn & Co; 55 dms, G Hilgason & Melsted; 219 bbls, 191 dms, Arista Oil Products Co; 183 dms, Manufacturers Trust Co; 5 dms, Wessel, Duval & Co; 167 bbls, Scott & Bowne; 142 bbls, Norwich Pharmacal Co; 250 bbls, 100 dms, Peder Devold Oil Co; 10 dms, D C Andrews & Co; 25 dms

COPAL GUM—67 bgs, Colony Import & Export Co

CORNNUT OIL—17 cs, Roberts & Co

COTTON LINTERS—1,779 bls, Simmons Co; 337 bls, Burton Dixie Corp; motes, 124 bls, New England Waste Co; 680 bls, Kauders-Steuber Co

COTTONSEED HULL FIBER—1,272 bls, Hercules Powder Co; pitch, 108 bbls, G S Ziegler & Co

COTTONSEED MEAL—1,360 bgs, Old Deerfield Fertilizer Co; 454 bgs, Old & Whipple, Inc

CRESYLIC ACID—100 dms, William D Neuberg; 445 dms, E I duPont de Nemours Co; 301 dms, Republic Chemical Corp; 50 dms, American British Chemical Supplies, Inc; 534 dms, J H Faunce, Inc; 257 dms, Monsanto Chemical Works; 130 dms, Guaranty Trust Co

CROTON OIL—3 dms, Fritzsche Bros

CYMBARUM OIL—68 dms, Consumers Import Co; 92 dms, Otto Gerdau Co; 5 dms, Felton Chemical Co; 23 dms, Orbis Product Corp

DIVI-DIVI—3,605 seroons, Curacao Trading Co; 2,210 bgs, Guaranty Trust Co

DYES, ANILIN—100 dms, Ciba Co; 21 dms, Wedeman & Godknecht; 4 kgs, 20 dms, Irving Trust Co

FERROMANGANESE—585 tons, Electro Metallurgical Co

FILTER PAPER—23 cs, H Reeve, Angel & Co

FLAXSEED—7,113 tons, Commodity Credit Co

FLINT PEBBLES—1,567 bgs, J W Higman Co; 2,944 bgs, Buebendorf Bros

FUEL OIL—205,000 bbls, Standard Oil Co N J; 65,196 bbls, Asiatic Petroleum Corp

FUSTIC—2,388 bgs, Chase National Bank & Trust Co

GENTIAN ROOT—87 bgs

GINGER—171 bgs, Joensson & Cross; 112 bgs, Volkart Bros; 65 bgs, J A Manton Co

GLUE—10 bls; bone, 400 bgs, Transatlantic Animal By-Product Corp

GRAPHITE—821 bgs, Charles Pettinos

HENBANE LEAVES—45 bls, Inland Alkaloid Co

ICTHAMMOL—35 bbls, Kachurin Drug Co

IPECAC ROOT—16 bgs, Parke, Davis & Co; 11 bgs, S B Penick & Co

JALAP ROOT—30 bgs

JASMIN, ABSOLUTE—1 cs; concrete, 1 cs, Bankers Trust Co; oil, 5 cs, Guaranty Trust Co

LEMON OIL—44 half cs, National City Bank; grease oil, 1 dm, Orbis Product Co; peel, 85 bgs

LIME OIL—5 cs, Victory Shipping Co

LINSEED OIL CONTAMINATED—850 tons, United States Commercial Co

LOCUST BEAN GUM—100 bgs, Stein, Hall & Co

MAGNESIA, CALCINED—200 cs, Keasbey & Mattison Co; carbonate, 350 bgs, Schofield, Donald Co, Inc

MAGNESITE, CALCINED—684 bgs, Golwynne Chemical Co

MANGANESE ORE—8,600 tons, Electro Metallurgical Co

MANIOC MEAL—4,000 bgs, Stein, Hall & Co

MANNA—12 cs, Manufacturers Trust Co; 25 cs, Brown Bros Harrimann Co; 13 cs, Continental Bank & Trust Co

MENTHOL—17 cs, J Beriage & Co

MICA—154 cs, National City Bank; 356 cs, Asheville Mica Co; 34 cs, J F Garnean Co; 136 cs, Eugene Munsell & Co; 24 cs, United Mineral & Chemical Co; 83 cs, H G Brake & Co; 49 cs, A O Shoonmaker Co; 72 cs, Ford Radio & Mica Corp

MOLASSES—2,900 tons, W R Grace & Co; 3,800 tons, Standard Brands, Inc

MUSTARD DROSS—360 bgs, Atlantic Sales Corp; seed, 3,207 bgs, Gulden & Co

NISPERO GUM—26 bgs, Marbes Trading Co

ORANGE OIL, BITTER—7 cs, J A Manton & Co

ORANGE PEEL—400 bgs, Gausse Mfg & Import Co; 483 bgs, Charles Happel; 42 bgs, J A Horn & Co

PAINT—55 dms, Asiatic Petroleum Corp; 10 dms

PALM OIL, PITCH—100 dms, G S Ziegler & Co

PEPPERMINT LEAVES—18 cs, Peek & Velsor; oil, 6 dms, Bendix Chemical Corp

PERILLA GUM—60 bgs, J M Santo Domingo & Co; 153 bgs, Bank of the Manhattan Co; 24 bgs, H A Astlett & Co

PETROLEUM, CRUDE—62,304 bbls, Imperial Oil, Ltd; 201,714 bbls, Standard Oil Co N J; 23,738 bbls, Gulf Oil Corp; 61,315 bbls, Imperial Oil, Ltd; 101,131 bbls, Barber Asphalt Corp

PIMENTO—500 bgs, Otto Gerdau Co; leaf oil, 1 dm, J A Manton & Co

PUMICE LUMP—1 ck, C B Chrystal & Co; 100 bgs, K F Griffiths & Co; 30 bgs, Whittaker, Clark & Daniels; 834 bgs; powdered, 1,893 bgs, C B Chrystal & Co; 1,141 bgs, K F Griffiths & Co; 7,493 bgs, 51 cs, 42 cks

QUICKSILVER—300 flasks, C P Hull Co; 40 flasks, International Forwarding Co

RED LEAD—1,000 bgs

ROSIN—3,635 bgs, William Gray & Co

SARSAPARILLA ROOT—8 bls, Peek & Velsor; 6 bls, Victory Shipping Co

SAFFRON—29 bls

SESAME SEED—264 bgs, Levy & Levis Co; 556 bgs, Chase National Bank & Trust Co

SHARK LIVERS—5 dms, Distillation Product Co

SHARK LIVER OIL—27 dms, Wessel, Duval & Co

SHELLAC & SEEDLAC—1,000 bgs, First National Bank Chicago; 25 bgs, Commercial National Bank & Trust Co; 100 bgs, Chase National Bank & Trust Co; 100 bgs, New York Trust Co; 30 bgs, Dan Hecht & Co; 273 bgs

SOAP SADDLE—200 ctns, 50 cs, J J Gavin & Co

SODA CARBMONAHYDRATE—140 bgs, Campana Corp; chlorate, 843 dms, International Selling Corp

TAMARINDS—6 cks, J A Manton & Co

TAPIOCA FLOUR—1,700 bgs, Geismar & Co; 413 bgs, Stein Hall & Co

TARTAR—3,432 bgs, Commodity Credit Co

THALLIUM SULPHATE—6 cs, International Selling Corp

TURMERIC—53 bgs, Becker Mayer Seed Co; 73 bgs, M J Golombeck; 60 bgs, M E Schoen Co

TURPETH ROOT—3 bgs, S B Penick & Co

ULTRAMARINE BLUE—75 cks, R T French Co

VALERIAN ROOT—18 bls, Peek & Velsor

VANILLA BEANS—46 cs, McCormick & Co, Inc

VETIVER OIL—3 dms, Ge oLueders & Co

WATTLE BARK—3,284 bls, Hammond & Carpenter

WHITING—6,000 bgs, Nicholes H Weitzner

WOOL, WAX—10 dms

### Baltimore Imports

CHROME ORE—2,703 tons, Frank Samuels & Co

MANGANESE ORE—4,500 tons, L J Buck, Inc

SESAME SEED—334 bgs, W G Scarlett & Co

### Boston Imports

IPECAC ROOT—4 bgs, First National Bank

### Norfolk Imports

MANGANESE ORE—2,000 tons, E J Lavino & Co

MICA SCRAP—1,000 bgs, Richmond Mica Corp

### Philadelphia Imports

GARNETLAC—400 bgs, Wm Zinsser & Co

SHELLAC—500 bgs, Wm Zinsser & Co

VANILLA BEANS—20 cs, M Cortizas & Co

### San Francisco Imports

CINNAMON—369 bls, Willets & Co, Inc

# Message on a Drum

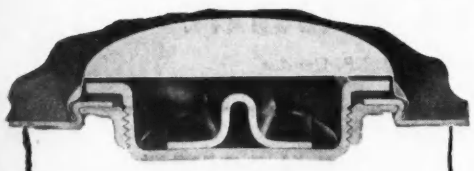
EVERY seller has some message he wants to send to the buyer. His message is part of his basic effort to prepare for more effective future sales.

Few sellers have the advantage of those who sell liquid products in steel drums. Their messages can be placed at a point that must be seen by the buyers when they empty the drums. The cap seals on the closures carry their colorful trade marks, advertising, labels and instructions.

Improvement of drum appeal is in the immediate programs of many firms. Their drums will be colorful and they will be effective.

Users of VISEGRIP CLOSURES and VISEGRIP CAP SEALS may call upon the art service maintained by the Rieke organization for the planning and design of cap seals that are coordinated with other plans for more drum appeal.

VISEGRIP CAP SEALS are the very effective medium that will carry messages from sellers to buyers, *at the same time* that they protect products against tampering and contamination . . . VISEGRIP CAP SEALS on VISEGRIP CLOSURES, the *all-steel closures* for *steel drums*.



VISEGRIP cap seals, with oil or chemical-resisting gaskets, clamp directly on the drum metal itself, independent of both the plug and the flange. They can withstand internal pressures from 40 to 60 pounds per square inch. It should be noted that cap seals are not required on VISEGRIP Closures to insure against leakage. VISEGRIP Closures are entirely self-sufficient. VISEGRIP cap seals guard against undetected tampering and act as an identifying medium.

*If you can use the Rieke art service for VISEGRIP CAP SEALS we shall be glad to have you request us to call to discuss your requirements.*

**VISEGRIP CAPSEALS for VISEGRIP CLOSURES**

*developed and produced for more than twenty years by*

**RIEKE METAL PRODUCTS CORPORATION**

AUBURN, IND. NEW YORK, N. Y.

## Van Gelder-Fanto Corp. Organized

Biological Raw Products Company and the Manfred Fanto Company have been merged to form the Van Gelder-Fanto Corporation under the management of Maurice Van Gelder and Manfred Fanto. The company will maintain offices at 52 Vanderbilt avenue, New York.

**Mutual Liquid Gas** Company, Inglewood, Cal., is erecting a new office building in that city at a cost of $12,000.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**INCORPORATED**

***Manufacturing Chemists***

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**NEW YORK 14, N. Y.**


## *To Get Honorary Degree*

**Dr. Ernest H. Volwiler, executive vice-president of Abbott Laboratories, North Chicago, Ill., will receive a honorary degree of Doctor of Science at the June 2 commencement exercises of Miami University (Ohio).**

## Vanadium Supply Data Released by CPA

New supplies of vanadium contained in ores and concentrates, after allowance for losses in conversion to vanadium pentoxide and then to ferroalloys, amounted to 3,300,000 pounds in 1944, compared with 5,800,000 in 1943, nearly 5,300,000 in 1942, and 3,400,000 in 1941, according to the Civilian Production Administration. New supply in the first ten months of 1945 aggregated 3,100,000 pounds. With vanadium content of imported materials ranging between 1,100,000 and 1,900,000 pounds per year, domestic production accounted for the bulk of new U. S. supply over the war period.


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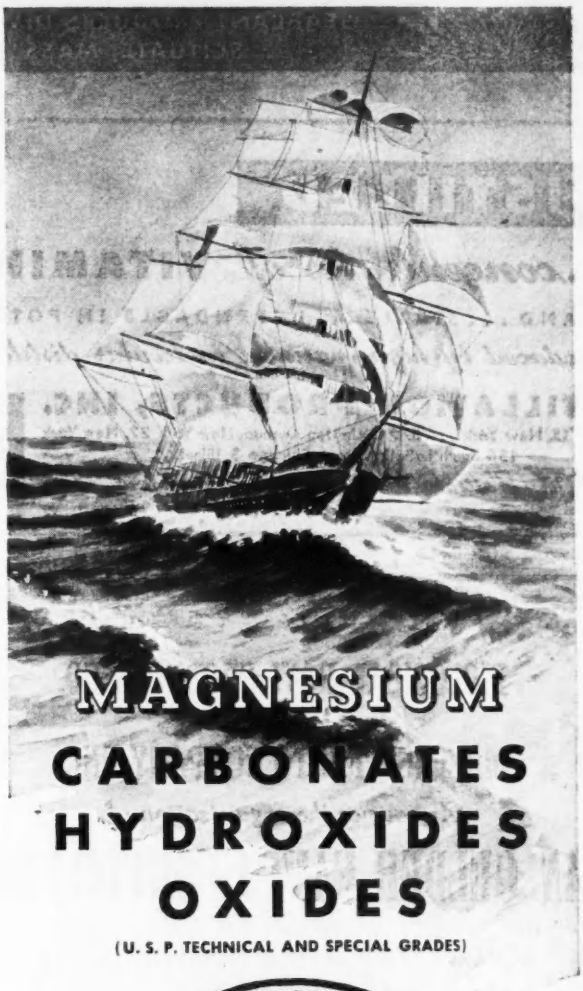

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IT GELS...
IT EMULSIFIES...
IT STABILIZES...
IT SUSPENDS...

We are now producing from Carragheen two new improved types of gelose. One of them should be the answer to your emulsifying, suspending, thickening or stabilizing problems.

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**CARRAGAR** is an agar-type gelatin which forms tender, fruit-like gels over a wide pH range. It does not require acidulation to produce desired results.

Send for free liberal working samples for experimental use.

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for the purpose of expanding their operations in biological raw products, chemicals, pharmaceuticals, etc. and to carry on the business of importing, exporting and distributing commodities in their respective lines.

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Glucose
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**All Other Heavy and Fine Chemicals and Pharmaceuticals**


## Oil Firms Charged With Price Conspiracy

Twelve oil companies have been charged with conspiracy to increase tankcar prices of gasoline in a suit filed in the District Court of the United States at Madison, Wis. A group of twelve midwest consumers, who asked for treble damages of $109,038 under the Clayton Anti-Trust Act, filed the suit.

Named as defendants were Socony-Vacuum Oil Company; Wadhams Oil Company; Cities Service; Continental Oil Company; Pure Oil Company; Shell Petroleum Corporation; Sinclair Refining Company; Mid-Continent Petroleum Corporation; Phillips Petroleum Company; Skelly Oil Company; Globe Oil & Refining Company of Oklahoma, and Globe Oil & Refining Company of Illinois.

## Continental Oil Elects Osborn Vice-President

Harold G. Osborn, recently manager of the manufacturing department of the Continental Oil Company, New York, has been elected vice-president in charge of manufacturing. Dr. Walter Miller, vice-president in charge of refining, has retired from the company.

## Petroleum Chief Gets Interior Dept. Award

*OPD Washington Bureau*

An award of outstanding achievement, the highest possible under the employee suggestion system of the Department of the Interior, has been given to Roscoe A. Cattell, chief of the petroleum and natural gas division, for his basic discovery of using helium as a tracer gas to determine underground movements of gas and oil.

## Socony-Vacuum Buys WAA Butane Plant

*OPD Washington Bureau*

The Socony-Vacuum Oil Company, New York, has purchased a butane-butylene extraction plant at East Chicago, Ind., from the War Assets Administration. The plant was built by the government during the war for the manufacture of high octane gasoline.

## Nat'l Oil Products Develops New Cutting Oil Bases

Three new cutting oil bases for use in the metal-working trades, including one in which sulphur and chlorine are combined in non-corrosive form, have been developed in the research laboratories of the National Oil Products Company, Harrison, N. J.

## Ethyl Specialties Names Bean Sales Promotion Head

Harry S. Bean has been appointed sales promotion manager for Ethyl Specialties Corporation, formed to market packaged products of Ethyl Corporation. He formerly was associated with Lever Brothers Company, Cambridge, Mass.

## Texas Co. to Build First Eastern Refinery

The Texas Company has acquired a 1,368-acre site on the Delaware River, opposite the Philadelphia Navy Yard where it will construct its first refinery in the East Coast area. The first unit of the new plant is expected to be placed in operation during 1948.

## Warren Petroleum Buys Seven Hanlon Firms

The Warren Petroleum Corporation has purchased all the outstanding capital stock of seven companies in the Hanlon Oil group. They include Heneghan & Hanlon, Inc., Hanlon-Buchanan, Inc., Hanlon Gasoline Company, Hanlon Gasoline Company of Texas, Hanlon Pipe Line Company, Smith Brothers Refining Company, and Hanlon-Boyle Company. Purchase price was about $12,000,000.

## *Professional Services*

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**Dr. J. Ehrlich**
153 S. Doheny Dr., Beverly Hills, Calif.

**Ellis-Foster Company**
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**Ralph L. Evans Associates**
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**Food Research Laboratories, Inc.**
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**LaWall & Harrisson**
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**Leberco Laboratories**
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**Molnar Laboratories**
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**James C. Munch**
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# Petroleum Derivatives

While unaffected by the railroad and bituminous coal mining snarls, insofar as the production and movement of its own products are concerned, the petroleum industry is nonetheless greatly inconvenienced by these economic setbacks by being compelled to bear an additional heavy load in supplying a hugely increasing number of former users of coal and coaltar products with its fuel oils and primary solvent materials and by a slowdown in buying of its petroleum alcohols by synthetic resin makers, resulting from the deadening influence of these labor controversies which have been only partially relieved by government seizure and operation of the soft coal mines.

Likewise, the petroleum industry has suffered from a slight diminution of purchasing by the synthetic rubber manufacturers in petroleum neoprene, butadiene, isobutylene, buna-N and buna-S, as production in many of the rubber making plants has been slowed down by labor troubles within these plants and the drab prospect for a return to normal operations at the coal mines and on the railroads.

However, there has been a steady improvement of late in the demand for petroleum origin additives for lubricating materials.

While the call for home-heating light fuel oils has waned seasonally, there has been a huge additional demand for the heavy fuel oils in the industrial fields, especially from manufacturing enterprises equipped with both coal-burning and oil-burning furnaces, which have had to have recourse to their oil-burning standby heat-generators. And the shortage in bunker oil, although somewhat relieved, is still great.

**Methylethyl Ketone**—The shutdown of most of the largest motor-vehicle-making plants, resulting from the growing coal famine, has been reflected further in a diminution of the buying operations in methylethyl ketone by the manufacturers of cellulose lacquers for automotive finishes.

**Xylol**—Despite the steady additional drain now being made upon their resources by former users of coaltar xylol, producers of petroleum xylol are meeting all trade requirements in this primary solvent material, having stepped up their output for this purpose, while reducing their yield of petroleum toluol to a minimum, until today it is running well in excess of the combined coaltar and petroleum xylol production of prewar years.

## Solvents and Diluents

**Aromatic Solvents**—A fairly spirited demand continues to be noted for both the xylol-based and toluol-based types of these high-solvency aromatics, with the processors of these materials adequately supplied with xylol and overplentifully with toluol.

**Cleaners' Naphtha**—A seasonally brisk movement is still being noted in this solvent.

**Lacquer Diluent**—Buying interest in this material continues to reach sizable proportions.

**Rubber Solvent** — Notwithstanding the slowdown in manufacturing operations at some of the plants of the synthetic rubber makers, due to labor troubles of their own and the soft coal miners' upheaval, there is still a considerable call for rubber solvent from these interests.

**Stoddard Solvent**—Moving in seasonally large volume into civilian dry-cleaning channels.

**V. M. & P. Naphtha**—Continues in moderately active demand.

### Markets at Other Centers

*Chicago, May* 24.—Interest in petroleum solvents and diluents continues fairly sizable in this area, with potential buying running well ahead of the total actual volume of transactions. Offerings in some instances are extremely small.

*Los Angeles, May* 24.—All petroleum solvents and diluents are still in good demand on the Pacific coast. Liberal offerings, with the exception of rubber solvent, are giving the market a brisk tone.

## *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

None

*(For Current Prices see page 9)*

## Petroleum Chemicals

**Allyl Alcohol**—Still moving in fair volume to makers of certain types of synthetic resins and plastics.

**Butyl Alcohol** — Although buying operations in butyl alcohol of petroleum origin and especially in its secondary and tertiary forms have been somewhat restricted by the difficulties experienced by synthetic resin makers in obtaining other constituent materials, due to the soft coal and railroad situations, interest on the part of these consumers continues sizable in these solvents.

## Lighter Fractions

**Butane**—Continues in keen demand with shipments going forward in sizable volume, chiefly in high-pressure-resistant tankwagons, in instances wherein tankcars on the railroads are not available or are not being moved in sufficient numbers.

**Heptane**—Still being taken up in small lots.

**Hexane**—Movement continuing but confined to rather meager quantities.

**Octanes**—Only light buying interest now being manifested in these gases.

**Propane** — Market conditions and buying movement in this liquefied petroleum gas continue virtually the same as those noted above for butane.

### Markets at Other Centers

*Chicago, May* 24.—Inquiries in this area for the liquefied petroleum gases continue fairly sizable in most instances. Buying in this category is showing a fairly good overall volume.

*Los Angeles,* May 24.—Buying interest in propane and butane is still holding out well on the Pacific coast. Supplies are excellent.

## Petrolatums and Waxes

**Microcrystalline Waxes** — Demand, of a peculiarly spirited character, continues to outstrip supply.

**Paraffin**—Huge domestic and export takings are still draining immediately available supplies of this petroleum wax to the extent that stocks of both crude scale and refined grades are being kept at a low ebb.

**Petrolatums** — The already heavy purchasing of these petroleum jellies by domestic consumers is being further supplemented by the calls of exporters who are now authorized by OIT to ship these materials out of the country without the old requirements for obtaining licensing.

**White Mineral Oils** — Combined buying operations of export as well as domestic consumers are reaching larger proportions daily. Exporters are taking all they can get, now that they no longer have to obtain specific licenses for each shipment.

## Fuels and Lubricants

**Fuel Oil**—The drain upon the petroleum industry's supplies of heavy or residual fuel oils has been heavily increased of late by the calls made upon it for these liquid fuels by manufacturing enterprises equipped with both coal-burning and oil-burning furnaces which have been compelled to shift from the former to the latter, as their supplies of soft coal have run perilously close to the vanishing point. Bunker oil is also in unabatedly keen demand, with the supply, while steadily augmented, still inadequate for all ocean-going vessels equipped with diesel engines. Light fuel oil, customarily employed for home-heating, is becoming easier, as the demand wanes seasonally.

**Gasoline**—With the resumption of plowing, seeding and other farming operations on a steadily expanding scale, the demand for low-octane gasoline, for off-the-road use, has been hugely amplified. Simultaneously, the call for regular and premium grades of gasoline has increased considerably, with the result that the markets for virtually all types of motor fuel have fully recovered from their recent slump and are now growing extremely active and firm again.

*For Late Market Developments, See Page* 4

WAXES

MICRO CRYSTALLINE WAXES
WHITE TO DARK AMBER
145F TO 175F

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(Amorphous)
WHITE TO DARK AMBER
100F TO 150F

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PETROLATUMS — WHITE OILS
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PETROLEUM SULFONATES
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well worth investigating for

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In the manufacture of a wide variety of industrial products—from rust preventatives to carbon paper—Penn-Drake PETROSULS (petroleum sulfonates) help reduce production costs, or improve the products, or both. Made in a number of grades having properties needed for various applications, these surface-active products are used for emulsification, dispersion, rust prevention, detergency and other operations.

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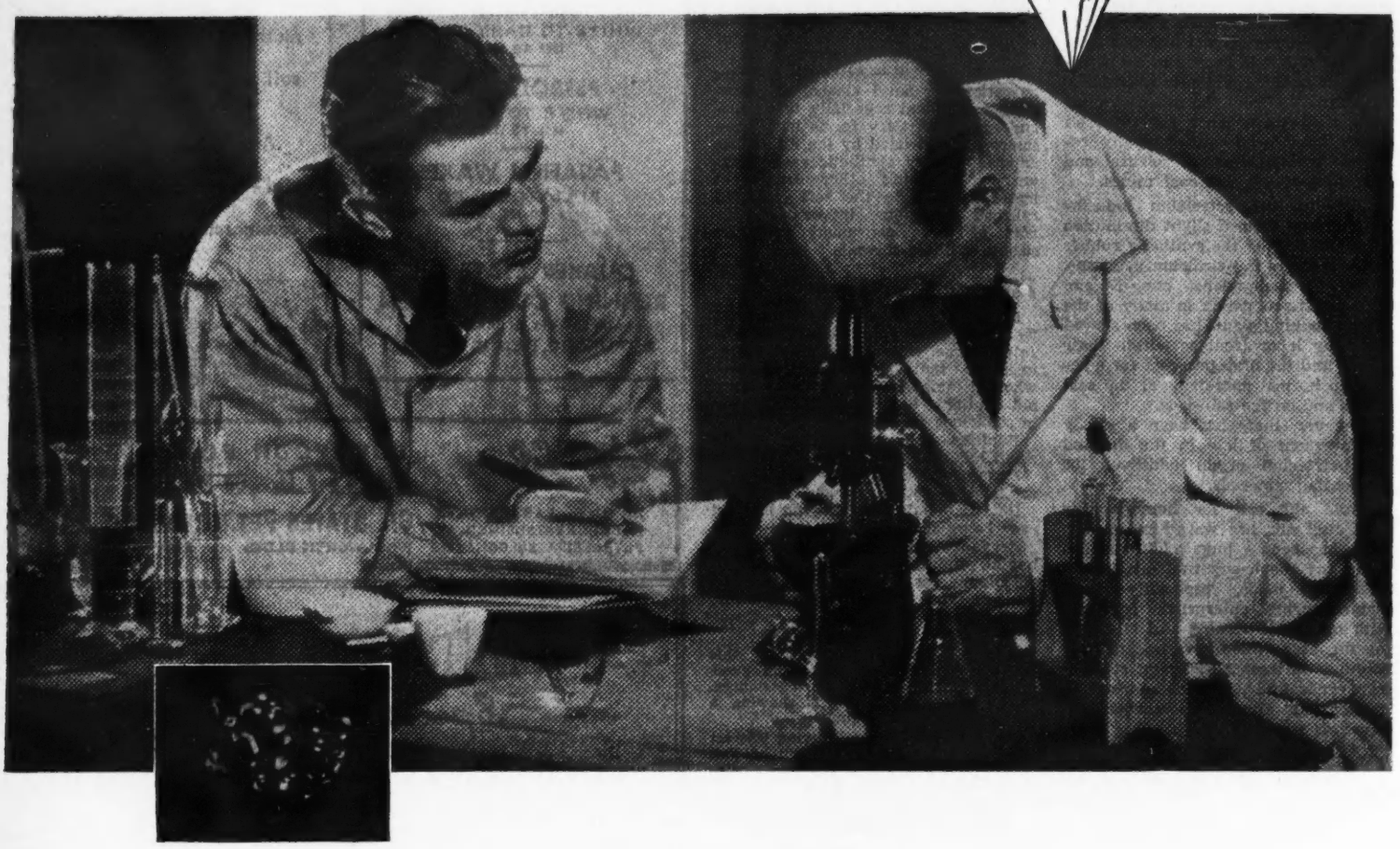
Makers: White Oils U.S.P. and Technical; Petrolatums all grades and colors; INSECTI-SOL deodorized insecticide base; Deodorized and other Naphthas; Petroleum Sulfonates; Waxes; Industrial and Motor Lubricants and Greases; Fuel Oils, and other petroleum products.

OPD—5-27-1946 58

# A Diamond in the rough needs Polishing



GUMS in their crude state need

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# Botanical Drugs, Spices, Gums

Business in botanical drugs was fairly active last week. While some said trade was less than normal for this time of year, others reported volume to compare favorably with normal experience. The business was done in a market practically free from price dislocation in medicinal drug prices.

An idea of the extent to which collections are conservative in size arises from some offerings made by primary market first hands in domestic botanicals. One such list was received locally last week from a dealer who had also offered in August, 1945. A check of the quantities offered on both occasions reveals that the dealer making them on May 15 this year merely repeated items and quantities offered in August, 1945. With the exception of offering this year 200 pounds more of goldenseal herb, and 200 pounds less of wahoo bark of root, the quantities offered in May, 1946, were identical with the offering in August, 1945. All of which does not suggest much gain in the size of domestic collections thus far this year.

Detentions of arriving botanicals by the Food and Drug Administration continued to mount high. Having more inspectors available, the administration is combing arrivals finely, and possibly, completely, for the reason that it believes that the goods now arriving had been stored in foreign countries for a number of years with the result that rats, mice and time had worked to the contamination and/or deterioration of the merchandise.

Shipment of off-quality botanicals used for either medicinal or foodstuff purposes constitutes a real hardship on those importing the merchandise—a hardship probably much less than would be the lot of consumers if the goods were released by the administration.

## Balsams

**Copaiba**—Stocks were still short and a strong market would have prevailed even had demand been less active than it was.

**Tolu**—Undersupply was the common lot of both sellers and buyers. A strong market appeared destined to continue indefinitely.

## Barks

**Lemon Peel**—A further quantity of this article reached here last week, 85 bags coming from Canneto, Italy. Prices have sustained arrivals well for the reason that primary market costs remain relatively high.

**Orange Peel**—From Port au Prince came 925 bags of this item last week.

## *Imports Detained by FDA*

**Week Ended May 17**

### New York

Arnica flowers, 77 bales: insect infested.
Carrageon moss, 200 bales: filthy.
Color and flavor for food, 3 cartons: insect infested-non-permitted color.
Cassia, 113 bags: insect infested.
Chillies crushed, 1,012 bags: filthy.
Chillies, 490 bags: insect infested and moldy.
Celery seed, 112 bags: filthy.
Clove, 300 bales: filthy.
Colchicum root, 14 bags: insect infested.
Color for cheese, 1 case: contains copper.
Coriander seed, 500 bags: filthy.
Cubebs, 6 bags: not NF.
Cumin seed, to 16 shipments, 3,668 bags: 4, excessive acid, insoluble ash; 1 insect infested; 11 filthy.
Ergot, 10 drums: filthy.
Henbane muticus leaves, 35 bales: not U.S.P.
Juniper berries, 138 bags: filthy.
Mace, 44 cases: filthy.
Nutmegs, 50 bags: wormy and moldy.
Pimento, 1,000 bags: filthy.
Peppermint leaves, 10 cases: insect infested.
Sesame seed, 1,270 bags: filthy.
Saffron, 1 case: filthy.
Stramonium leaves, 37 bales: filthy.
Sage leaves, 28 bags: not official variety.
Valerian root, 50 bales: excess acid-insoluble ash.

### Philadelphia

Sage, 50 bales: filthy, bags unlabeled.

## *Market Trends*

**Prices Advanced**

*Drugs*

None

*Other Articles*

Cassia, China, buds, 2c. per lb.
Celery seed, India, 2c. per lb.
Cumin seed, India, futures, 1c. per lb.; 3½c. per lb.
Nutmegs, W. I., futures, 15½c. per lb.
Pepper, red, chillies, Haitian, 3c. per lb.
Mexican, 3c. per lb.
Niger, 5c. per lb.
Pimento, 2c. per lb.

**Prices Reduced**

*Drugs*

Chamomile, Roman, 5c. per lb.
Kola nuts, 1c. per lb.

*Other Articles*

Anise, Chinese, star, 2½c. per lb.
Caraway seed, Dutch, 1½c. per lb.
Cassia rolls, select, 2c. per lb.
broken, select, ½c. per lb.
Saffron, Mexican, 5c. per lb.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 287.8 | 287.8 | 281.3 | 227.5 |

*(For Current Prices see page 9)*

It appears that the Haitian exporters are not going to turn this business back to Europe without a substantial struggle.

**Soap**—Conditions in the primary market suggest no early easing of shipment prices quoted to this market. Nor is transport any too satisfactory. Local quotations continued very firm. Germany has not yet resumed business in cut bark for which that country was famous in prewar times.

## Beans

**Vanilla**—It seems impossible that vanilla bean factors in Marseille, France, can ship any beans to this market regardless of what "offerings" may be made. The arrangement between United States importers and French government authorities is that beans destined for the United States will come only from the French islands producing Bourbon vanilla beans. Export from France without license is impossible and licenses are not being issued. Prices to be paid by importers in France are the same that United States importers are to pay in the French islands. Prices recently quoted from Marseilles were far below the official price in Madagascar, according to importers here. Now that United States price ceilings have been removed by Federal order, developments may come in prices for Mexican beans.

## Berries

**Cubeb**—Although reports of arriving merchandise have not included mention of any cubebs reaching here from the primary market, the latest report of detentions by government order does include 6 bags detained because they were not N. F. in quality. It should not be long before N. F., quality berries arrive and break the present total absence of local stocks.

**Hawthorn**—New crop berries should eventually be moved from Britain to the United States and a general distribution of supplies again become possible.

## Flowers

**Arnica**—Because of stocks being very small, the market for this article is virtually nominal. Only small quantities seem to be obtainable and no substantial quantities are known to be destined for early arrival.

**Chamomile**—Roman flowers are arriving once more. A landing that totaled 18 bales was noted last week, the flowers coming from Antwerp. However, export from that point seems likely to continue occasional and irregular. Prices down to $1.70 to $1.80 per pound.

**Saffron**—Mexican saffron was in better supply following the arrival of 29 bags from Vera Cruz last week. shaded to $1.55 to $1.60 per pound. Spanish flowers varied rather widely as to quality, some dealers offering strictly NF quality goods and others who name the lowest prices offer goods

*For Late Market Developments, See Page 4*


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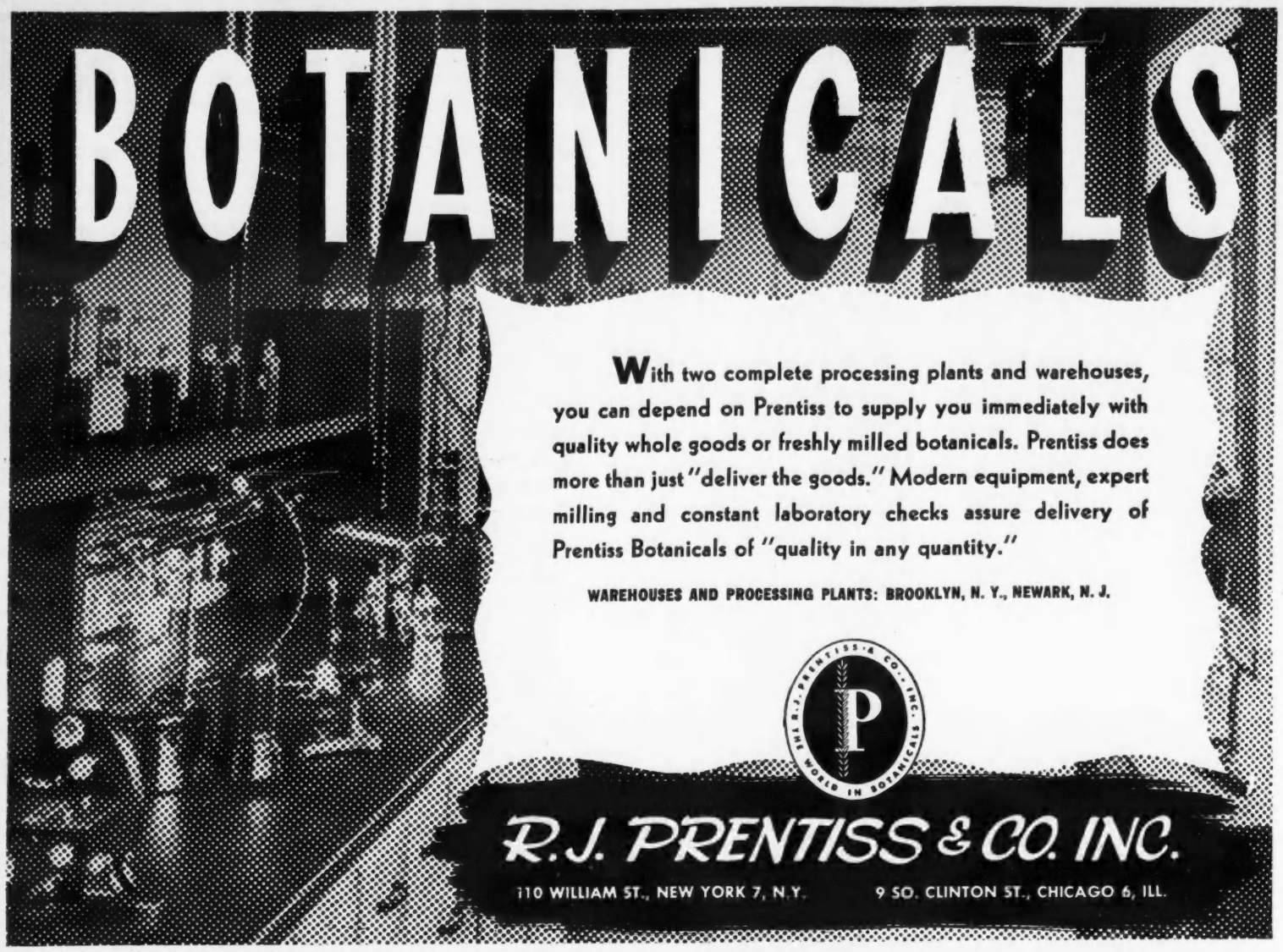
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admitted not to be NF. Pricewise, Spanish flowers remained unchanged.

## Gums

**Arabic**—Spot and primary market prices held very firm and demand at the source was sufficient from all countries to prevent deterioration of the market there. Demand here was reasonably active and first costs prevented undue competition.

**Benzoin**—Turmoil in the Far East has prevented resumption of exports from either Sumatra or Siam. This market has only synthetic gum available. However, regular dealers in the natural gum expect goods to start from the Far East in the not too far distant future.

**Karaya**—Prices were definitely firm and the tendency, if any, was upward because of substantial strength that prevailed in the market in India. Supplies reaching here care for most demand which, on the whole, continued very good last week.

**Tragacanth**—Values in local circles held virtually strong in the absence of importers' ability to replace to greater price advantage in the primary markets. Also, demand last week was a supporting element in the overall very firm situation.

## Herbs and Leaves

**Belladonna**—The future of replacement buying in Europe remains to be developed but if experience in other articles be repeated in belladonna, some merchandise will be forthcoming from the European markets this year. Demand in local circles was routine throughout the past week.

**Buchu**—Holding firm and fast in line with also well maintained prices already paid in the primary market. Demand was somewhat improved locally, according to some.

**Henbane**—Inquiries for hyocyamous muticus circulated through the spot last week but potential buyers found the going tough since normal sources appeared unable to supply. The latest report of the Food and Drug Administration detentions included 35 bales of muticus. An arrival of 45 bales of henbane from Alexandria, Egypt, was reported.

**Peppermint**—European leaves are coming here more regularly. The latest arrival was 18 cases that reached here from Antwerp, Belgium. Prices down to $1.40 to $1.50 per pound.

## Miscellaneous

**Areca Nuts**—Arrival of 160 bags of whole material from Colombo was reported last week. Powdered nuts moved in very good volume at equally steady prices.

**Cantharides**—Still very scarce because of the very small quantities of both Chinese and Russian flies landed here of late. Prices remain firm at exceptionally high levels.

**Kola Nuts**—Holding steady on spot but not the object of specially active request last week. The latest arrival was 31 bags from Port au Prince, Hait. Prices shaded to 10c. to 11c. per pound.

**Manna**—Further quantities of Italian manna reached here last week. The quantity was 50 cases despatched from Palermo. Some goods formerly arriving were detained by order of the Food and Drug Administration.

**Tamarind**—West Indian material from Port au Prince, Haiti, reached this port to the extent of 6 casks last week.

## Roots

**Aletris**—Collections reported unfavorable and a surplus of this article is not indicated for this season. Prices seem likely to avoid decline to normal levels.

**Angelica**—From Antwerp, Belgium came 17 bales of this article last week. Whether natural or twisted root could not be learned up to press time.

**Blood**—Fair collections that were still less than normal were reported. Prices were firm.

**Calamus**—Stocks of this root improved when 100 bags reached this market from Calcutta, India.

**Ipecac**—Importations from Cristobal in the amount of 31 bags were noted last week without open market trading being reconstituted. Creation of even fair sized reserves proves hard.

**Jalap**—The small quantity of 30 bags from Vera Cruz, Mexico, reached here last week to find the spot market definitely firm.

**Sarsaparilla**—Root from Port au Prince, Haiti, reached here last week. The quantity was 6 bales. Also. 8 par-


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| Nutgalls | 4 | drams |
| Kino | 4 | drams |
| Cinnamon | 2 | drams |
| Clove | 1 | dram |
| Capsicum | 10 | grains |
| Opium tincture | 1 | ounce |
| Peppermint essence | 1½ | drams |
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| Sugar | 14 | troy ounces |

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cels of Mexican root came in from Tampico.

**Turmeric**—Reappearance of Far Eastern root is not stopping exports of turmeric from Hait: 186 bags arrived from there last week.

**Valerian**—Belgian root has again arrived here, the quantity being 18 bales sent here from Antwerp. No general distribution of Belgian rot exists and most sales involve the produce of India.

## Seeds

**Anise**—Chinese star anise was lower at 32c. to 33c. per pound.

**Caraway**—Prices on Danish seed were reduced to 28c. to 29c. per pound, and Dutch seed dropped to 26½c. to 27c. The last price on futures was also 26½c. to 27c.

**Celery**—Prices on India seed jumped to 26½c. to 27c. per pound and goods afloat were offered at 27c. to 27½c.

**Cumin**—Quotations on Indian seed fixtures were advanced to 34½c. to 35c. per pound. Syrian and Persian held unchanged for spots but Persian futures were up to 32c. to 33c.

**Fennel**—Spot Argentine seed became available and was quoted at the lower price of 20c. to 20½c. per pound.

## Spices

**Cassia**—Large business was done in this item. China buds were shaded to 56c. to 57c. per pound. Selected rolls were down to 35c. to 36c. Extra selected broken rolls were a fraction off at 34½c. to 35c.

**Cinnamon**—A large arrival from Colombo, totalling 5,155 bales of this bark, was reported last week.

**Ginger**—A feature was the unavailability of African root in the London or primary market. Also, the arrival of 34 bags of ginger from Port au Prince, Haiti.

**Nutmegs**—West Indian nutmegs appeared in trading last week when reports said large transactions in July-September shipment material were put through at 50c. to 51c. per pound.

**Peppers**—Haitian hot chillies advanced to 55c. to 56c. per pound. Mexican chillies were up to 43c. to 44c. Niger chillies were worth 55c. to 56c. in sellers' opinion.

**Pimento**—Spot delivery goods advanced sharply to 26c. to 26½c. per pound and futures rose to 24c. to 24½c.

### Markets at Other Centers

*Los Angeles, May 22.*—Trading in botanical drugs and spices was relatively slow here this week. Supplies are short, prices steady. Ruling prices are:—

Marjoram — French type, 35c. per pound in dried form.

Sage—Dalmatian type, 40c. per pound for lots said to contain less than 12 percent stems. Sage guaranteed to contain less than 5 percent stems was named at 65c. per pound. Leucophylla was quoted at 32c. per pound.

## *J.K. Lilly Observes*

*—Continued from page 3*

with the firm on June 10. The occasion will be observed at company dinner to be held that night at the Indianapolis Athletic Club.

Guests at the dinner will be retired employees of the company and employees with twenty-five years or more service who are still active in the organization. Principal speaker will be W. A. Hanley, the company's vice-president in charge of engineering, while J. K. Lilly, jr., executive vice-president, will serve as toastmaster.

J. K. Lilly went to work for his father, Eli Lilly, on June 10, 1876, as an office boy in what was probably the world's smallest pharmaceutical concern. The company has since grown into one of the leading manufacturers of pharmaceuticals and biologicals in the world. He became president of the firm in 1898 upon the death of his father, and was succeeded in that post by his son, Eli Lilly, in 1932.

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# Essential Oils, Other Aromatics

Expanded interest from the pharmaceutical, insecticide and certain miscellaneous consuming channels partially made up for declines recorded in other directions because of raw material shortages in the market for essential oils and aromatic chemicals last week. The confectionery and beverage trades in particular were feeling the effects of sugar allocations, and in some instances, shut downs were evident in view of current conditions. The soft coal situation and the railroad strike were factors threatening production of aromatic chemicals, and shipment of merchandise generally.

Prices for all grades of peppermint oil were firmer. With planting of the new crop about completed in the principal producing areas, it has been estimated privately that this year's crop should total approximately 1,250,000 pounds. This would compare with the final production estimate of 1,502,000 pounds for 1945, according to the Department of Agriculture figures of last December. There are no official statistics available on the carryover of peppermint oil, but this, together with the higher costs and yield per acre, will be a determining factor in computing costs of this year's crop. As far as can be learned, weather conditions have been mostly favorable for early plantings, but it is still too early to hazard a prediction what the future conditions may bring about, such as frosts, winds and disease. Preliminary government estimates of production and acreage will not be released until the Fall. Domestic demand has been better than expected in view of the sugar shortage, it was pointed out, while export inquiries have increased.

The sales of surplus stocks of government-owned Sicilian lemon oil to former importers aggregated 217,977 pounds, according to latest reports from the U. S. Department of Agriculture. Approximately 268,300 pounds were placed on sale March 15 at the ceiling price of $2.92½ per pound. Reports in the trade indicated that most of this material found its way into consuming channels as domestic output has not been sufficient to meet all inquiries. It has been noted, too, that imports are commencing to arrive from Italy in moderate quantities.

## Market Trends

**Prices Advanced**

Peppermint oil, nat., 35c. per lb.
redist., 20c. per lb.
Petitgrain oil, 25c. per lb.
Pimento leaf oil, 10c. per lb.
Spruce oil, 10c. per lb.

**Prices Reduced**

Cassia oil, U.S.P., $1 per lb.
Rosemary oil, U.S.P., 10c. per lb.
Sage oil, Spanish, 10c. per lb.
Thyme oil, NF, red, 40c. per lb.
white, 55c. per lb.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 207.6 | 209.3 | 213.4 | 230.1 |

*(For Current Prices see page 9)*

## Essential Oils

**Anise**—Market failed to hold small recovery of preceding period, and spot prices ranged from $2.25 to $2.75 per pound. Offerings from China continued at low figures, and demand here was not broad.

**Bergamot**—Arrivals from Italy aggregated 100 half and quarter cases last week. Interest continued narrow and spot price was subject to further shading in some directions.

**Cade**—The few lots of distress material apparently were absorbed, and the spot position appeared firmer with quotations maintained at the 80c. to $1 level. Demand only fair.

**Caraway**—While no recent arrivals were recorded, the market was adequately supplied on spot and prices declined moderately to the basis of $8 to $8.75 per pound.

**Cassia**—Prices continued to decline and offerings were made as low as $4.50 per pound in one quarter, but in other directions $5.50 per pound was reported. Offerings continued from China at lower levels.

**Cedarwood**—Market was not too well supplied on spot, and offerings were usually restricted to regular consuming channels. Prices ruled firm.

**Citronella** — Litigation concerning the duty status of Ceylon oil retained transactions on a cost plus duty basis until final ruling is handed down by the appellate court. Market tone remained firm.

**Croton**—The arrival of three drums was disclosed last week, and bolstered the spot position of the market. Prices ranged from $4.65 to $4.75 per pound.

**Eucalyptus**—Prices were fully maintained, with the disposition toward firmer levels. No imports were recorded last week; however, it was pointed out that some Spanish oil was expected soon to supply the demand, which has not been fully compensated by the Australian shipments recently.

**Geranium**—Quotations for Bourbon were firm, and spot offerings were limited in most quarters. Demand moderate.

**Lavandin**—No further price concessions occurred, but demand continued narrow and quotations ranged from $4.50 to $5.50 per pound.

**Lemon**—Disposal of surplus stocks of government-owned Sicilian lemon oil to the trade amounted to 217,977 pounds so far, according to latest reports from the U. S. Department of Agriculture. Approximately 268,300 pounds were placed on sale March 15 at the ceiling price of $2.92½ per pound. Imports from Italy amounted to 44 half cases last week.

**Lemongrass**—Only one drum arrived last week, however, substantial shipments were recorded recently, which apparently made up the bulk of the old stock from the Far East; new crop was expected in June. Spot prices were very firm.

**Neroli**—Price declines in the French oil were arrested, but it was indicated that Spanish material will be available on spot at $170 per pound.

**Nutmeg**—Firmer tendencies prevailed in view of the lifting of price ceilings on nutmegs and the resultant higher prices at the source. Spot position continued tight.

**Octea Cymbarum**—Another shipment amounting to 188 drums arrived from South America last week. Recent advance in prices at the source has stimulated shipments in the past month.

**Orange**—Of interest was the sale of 10 pounds of government surplus American sweet orange oil last month at $2.25 per pound, according to the U. S. Department of Agriculture sales report. Spot prices for various grades of orange oil held firm, and supplies were not too plentiful. Arrivals amounted to seven cases of bitter oil last week.

**Peppermint**—Following the trend in recent weeks, prices for natural and redistilled oil were higher ranging from $6.75 to $7 for the natural and $7 to $7.50 per pound for the regular redistilled. Firmer ideas in the West, steady domestic and export demand were factors in stabilizing the market. A total of six drums were imported last week.

**Petitgrain**—The continued higher replacement costs lifted spot prices to the basis of $4 to $4.35 per pound. Offerings at the source were reported at $3.90 per pound.

**Pimento**—Spot price for leaf oil advanced to $3.75 per pound. Offerings limited, and imports totaled one drum last week.

**Rosemary**—Quotations for USP declined to $1.40 per pound, and ranged as high as $1.75 in other directions. Demand only fair.

**Sage**—Spanish oil was lower in one direction at $2.45 per pound. Spot position was satisfactory and demand light.

**Spruce**—Offerings were made at $2.65 to $2.73 per pound in most directions. Market has firmed considerably recently because of higher replacement costs.

**Thyme**—Red oil was offered at $2.80 to $3.35 per pound; white ranged from $2.95 to $3.75. Interest narrow. A sizable shipment of Red oil was still awaited from Spain.

**Vetiver**—Bourbon was offered on a limited scale at prices ranging from

*For Late Market Developments, See Page 4*

$37.50 to $42 per pound. Imports aggregated three drums last week.

## Aromatic Chemicals

**Anethol**—Demand steady and shipments were not too far behind production. Prices unchanged.

**Benzyl Compounds**—A good inquiry prevailed, and most materials were available in moderate quantities. Prices remained firm.

**Cinnamic Aldehyde**—Sellers were booked ahead against current production, and in some instances short delays were encountered. Prices without change.

**Coumarin**—Production lagged behind demand, although some improvement was evident in certain directions. Prices firm.

**Ethyl Vanillin**—Business on allocated basis to regular consumers. Prices lacked change.

**Heliotropin**—Prices firm at the levels established recently. Demand steady.

**Ionones**—Good interest prevailed with raw material supplies improved, although prices remain firm in conformity with higher costs.

**Musk**—Ambrette and Ketone continued difficult to obtain, and shipments subject to delay; xylol position remained satisfactory.

**Phenylethyl Alcohol**—Inquiries exceeded available supplies, and business was allocated to regular consumers for nearby needs. Prices firm.

### Hay Joins Baker Instrument Co.

Robert C. Hay, formerly with the sales department of the plastics division of E. I. du Pont de Nemours & Co., Wilmington, Del., has joined the Baker Instrument Company, manufacturer of chemical laboratory equipment. Orange, N. J.

## *Trade Briefs*

**Prince Machabelli Inc.**, manufacturer of perfumes, has taken larger offices in New York and has acquired a new plant at Bloomfield, N. J.

**Sherrill Instrument** Company has moved its offices from Peru, Ind., to 185 North Wabash avenue, Chicago. The factory will remain in Peru.

**Stanley Heck**, formerly in the purchasing department of the National Research Corporation, Boston, has been named director of public relations and personnel for the company.

## *Obituaries*

—*Continued from page 5*

A former chemistry teacher at Bowdoin College, Mr. Cutts was associated with the Cudahy Packing Company, Chicago, and the National Lead Company, New York, before becoming associated with Stillwell, Gladding, Inc.

### Dr. H. W. Starkweather

Dr. H. W. Starkweather, head of the division of polymerization in the Jackson laboratory of E. I. du Pont de Nemours & Co., Wilmington, Del., died in that city May 18. Dr. Starkweather, who joined the du Pont research staff in 1929, was noted for his research on atomic weights and gas densities.

**Vernon A. Sparks**, since 1923 superintendent of operations for the marine department of the Standard Oil Company of New Jersey, died in White Plains, N. Y., May 18. He was fifty-five years old.

**Hugo Von Tillenburg**, a research chemist specializing in printing and writing inks, died in New York, May 17. He was seventy-one years old.

## *PG's on Business*

—*Continued from page 5*

**A more definite labor and price policy is badly needed.**

**Retroactive price increases are not allowed in Canada.**

With opinions like the above coming from prominent purchasing executives, representing some of our greatest industries, no one can doubt that business is in a bad state. The industrial purchasing agent faces a difficult task to protect his company's interests. He must keep a marked degree of balance, and dealings with his vendors must be firm if he intends to come through this difficult period with his company's interests safeguarded, while plants operate as near to production schedules as labor and materials permit.


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**METHYL "CELLOSOLVE" STEARATE,** a synthetic ester, is used as a plasticizer for cellulose derivative, paper coatings and wax finishes. The following data may suggest other uses.

| | |
|---|---|
| Chemical formula | $C_{17}H_{35}COOCH_2CH_2OCH_3$ |
| Molecular weight | 342 |
| Color (platinum cobalt scale) | 175 |
| Melting point | 22° to 24°C |
| Flash point | 378°F |
| Acidity | less than .6 mg. KOH per gram ester |
| Specific gravity | .888 at 25°/25°C |
| Iodine value | 2 max. |

Low volatility

* Trade mark of C&CCC

## BUTYL STEARATE

**BUTYL STEARATE,** a synthetic ester, is used as a plasticizer for cellulose and polyvinyl derivatives, also for cosmetics, paper coatings and wax finishes. The following data may suggest other uses.

| | |
|---|---|
| Chemical formula | $C_{17}H_{35}COOC_4H_9$ |
| Molecular weight | 341 |
| Color (platinum cobalt scale) | 130 |
| Melting point | 19° to 20°C |
| Flash point | 358°F |
| Acidity | less than .6 mg. KOH per gram ester |
| Saponication number | 171-179 mg. KOH per gram ester |
| Specific gravity | .85-.86 at 20°/20°C |
| Iodine value | 2 max. |

Low volatility

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Paraformaldehyde • Parahydroxybenzoates • Pentaerythritols • Salicylates

# Protective Coatings Materials

Although staggering under a well-nigh intolerable load of oft-recurring and only partially government-relieved work stoppages in the lines that serve it with raw materials, fuel and transportation and which furnish it with the principal outlets for its finished products, the American protective coatings industry is not contenting itself with merely marking time while waiting for the economic clouds to lift. It is actually making some further progress in the piling up of sales in some directions, wherein the shortages of materials has not yet blocked its headway, and is preparing to go ahead again, full steam, the moment these obstacles of labor troubles and material scarcities are removed.

The domestic makers of paints, varnishes and lacquers are still buoyed up in their optimistic views on the outcome of the present deterrents by the evidence, recently presented by the Census Bureau, that, even in the face of all these handicaps or nearly similar labor disturbances, occurring earlier this year, they built up a sufficiently big sales aggregate, in the first quarter of 1946 without the support of any war orders, to shoot far ahead of their sales volume for the corresponding quarter of the banner year 1945, when they were loaded to the gunwales with military business.

Considerable speculation is now being indulged in as to how much of a reduction in volume the industry's sales for April and May will record, under the heavy assaults of the economic chaos of the past two months.

Yet, the outlook for a titanic additional buildup of sales in their lines looms brightly, as there are many millions of dollars' worth of new industrial business just around the corner, and ready to be captured, just as soon as the present restrictive influences are lifted. And the prospect for a huge widening of the paint outlet in new residential buildings has been brightened enormously by President Truman's signing of legislation facilitating the private construction of 2,700,000 new homes within the next two years.

## Metallic Lead and Zinc

With domestic production of metallic lead continuing to lag woefully behind the levels attained at this season of the year in a vast majority of the past score of years, and with the chances for materially increased importations deemed exceedingly slim because of our inability to buy the lead produced in other countries at the American ceiling prices, in competition with foreign interests, able and willing to pay much more for it, the domestic makers of lead pigments are becoming reconciled to the expectation that their quota in the ensuing months will be no higher, but presumably still smaller, than the 79 percent allotment on a quarterly basis, now granted to them. In any event, CPA sees no immediate prospect for relief from the shortage. Prices of pig lead have continued unchanged for the week May 17-24 at 6.25c. per pound in St. Louis and 6.50c. in New York.

Although stocks of zinc slabs in the hands of both producers and consumers continue to show a slight increase, this has been mostly due to a diminution in the takings of consumers, and not to any substantial amplification of domestic zinc metal production, which, on the contrary, is still registering a recession, attributable to labor troubles at many of the zinc mines. At end of February, stocks of slabs had reached 273,075 short tons, from 266,267,277 tons at end of January. Prices for zinc slabs have remained unaltered for the week May 17-24 at 8.25c. per pound in East St. Louis and 8.66c. in New York

## Pigments

**Lithopone** — Increasing tension is noted in the market for this white pigment, whose production, already restricted by the scarcity of raw materials, has latterly been further cramped by the recent suspension of operations in a plant in Illinois, for lack of fuel and adequate transportation facilities.

**Titanium**—With the demand for $TiO_2$ continuing to run far in excess of the immediately available supply and the ilmenite processing capacity, the market for this pigment is growing tighter daily. No material amplification of the output of the finished material is now expected until this Fall.

### *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

None

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 140.2 | 140.2 | 140.2 | 140.2 |

*(For Current Prices see page 9)*

## Fillers and Extenders

**Pumice** — Increasing demand. Importations from Italy have been fairly sizable of late, amounting to 964 bags and one cask of lump and 10,527 bags of powdered material.

**Whiting** — Buying interest in both imported and domestic grades is still fairly keen. Latest importations have included 6,000 bags.

## Dry and Chemical Colors

**Carbon Black**—Although there has been some diminution in the takings of high color blacks by the makers of auto vehicle finishes, resulting from the recent suspension of operations in many of the leading automobile plants for lack of fuel, buying of these blacks is still reaching a fair-sized aggregate. Rubber tire makers also continue to make moderately extensive purchases of channel and furnace blacks, notwithstanding slowdowns at some of their plants, chiefly for the same reasons. The paint trade is also taking fair quantities of channel blacks and the inventories of channel blacks at the close of last month have shown little change from those recorded at the end of the previous month, although production has been going ahead on the greatly stepped-up scale which it had attained by the close of the war period.

**Ultramarine Blue**—In increasingly keen demand. An importation of 75 casks has been reported within the past week.

## Driers and Flatteners

**Naphthenates** — Demand for the metallic naphthenates continues fairly keen, although some of the leading consumers of these driers in the paint industry are holding down their buying because of shortages in other materials required in paint making. Producers of these driers continue adequately supplied with naphthenic acid.

**Stearates**—Buying interest in these flatteners on the part of the domestic paint and varnish trade is holding out well, despite a slight recession in the production of several lines of paints. Export inquiry is heavy and about the only manufacturers now having unspoken-for plant capacity are those who are declining to take on export business.

## Lacquer Materials

**Butyl Alcohol** — Rising costs and shortages in grains are stiffening the views of the makers of the natural normal fermentation butyl alcohols in all the producing regions, so that a further markup of prices for these natural products is now looked for at the outset of next month. Synthetic butyl alcohol, made from petroleum, however, seems likely to continue to be quoted at the previously-named figures.

## Naval Stores

**Rosin**—Although the domestic demand for gum rosin continues at ebb-tide levels, because of the acute shortages of most of the other ingredients of paints, varnishes and soaps

***For Late Market Developments, See Page 4***


STEARATES

ZINC
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in the United States, buying interest in this oleoresinous product for export is mounting to greater heights daily.

A few additional export licenses have been granted from the export quota of 100,000 drums for the quarter beginning April 1, some of them authorizing shipments to Egypt and the Far East as well as to Europe, while a few have been for conveyance of this product to South American countries. But the process of issuing these licenses has been permitted to drag, and, up to May 10 they had called for out-of-the-country shipments of only 22,000 drums, albeit a license for 47,000 additional drums was then momentarily expected for shipment to Great Britain. If present plans of producers are carried out, the output of gum rosin, alone, should reach an aggregate fully 25 percent greater than the 694,476 drums produced during the 1945-1946 naval stores year ended March 31, last.

*Savannah, May 24.*—Following is a record of the market for the week:—

| | Price per unit—Low of range quoted | | | | |
|---|---|---|---|---|---|
| | Mon. | Tues. | Wed. | Thurs. | Fri. |
| B | $6.00 | $6.00 | $6.00 | $6.00 | $6.00 |
| D | 6.07 | 6.07 | 6.07 | 6.07 | 6.07 |
| E | 6.60 | 6.60 | 6.60 | 6.60 | 6.60 |
| F | 6.70 | 6.70 | 6.70 | 6.70 | 6.70 |
| G | 6.74 | 6.74 | 6.74 | 6.74 | 6.74 |
| H | 6.76 | 6.76 | 6.76 | 6.76 | 6.76 |
| I | 6.76 | 6.76 | 6.76 | 6.76 | 6.76 |
| K | 6.80 | 6.80 | 6.80 | 6.80 | 6.80 |
| M | 6.82 | 6.82 | 6.82 | 6.82 | 6.82 |
| N | 6.98 | 6.98 | 6.98 | 6.98 | 6.98 |
| WG | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 |
| WW | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 |
| X | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 |
| | Drums | | | | |
| Sales | 36 | ... | 14 | ... | 87 |
| Receipts | 75 | 183 | 40 | 87 | 304 |
| Shipments | ... | ... | ... | 274 | 474 |
| Stocks | 5,028 | 5,211 | 5,251 | 5,014 | 4,934 |

**Turpentine**—In marked contrast to the lethargic character of the domestic inquiry for gum rosin, the domestic demand for gum turpentine is growing keener daily and, for the most part, is being only partially satisfied, with tankcar lots still difficult to obtain. Whether or not the producers are holding out for the higher ceiling prices, for which they have made urgent requests to OPA, or whether they are actually stymied by adverse weather and labor conditions in getting the new crude gum to the stills and thence, in the form of spirits, to the markets in the South, remains to be determined. The fact remains, however, that an acute shortage of gum turpentine still prevails in the South. And it is true that unseasonally chilly weather and heavy rains in the pinewoods, together with a more than customary disinclination on the part of the tree tappers and gatherers to work under these conditions, have unquestionably tended to hold down production.

Most producers, however, continue sanguine that the output for the 1946-1947 season will be fully 25 percent larger than the 244,252 barrels yielded in the 1945-1946 naval stores year. In anticipation of such an amplified production, it is noteworthy that they bought 6,376,000 cups for use in gathering the 1946-1947 crop, compared with the 6,084,000 cups which they acquired for this purpose in the previous year.

*Savannah, May 24.*—Following is a record of the market for the week:—

| | Bulk gallons—Cents. | Sales. | Barrels—Receipts. | Shipments. | On hand. |
|---|---|---|---|---|---|
| Monday | 83½ | 700 | 60 | ... | 938 |
| Tuesday | 83½ | ... | ... | 46 | 892 |
| Wednesday | 83½ | 950 | 246 | 8 | 1,130 |
| Thursday | 83½ | ... | ... | ... | 1,130 |
| Friday | 83¼ | 250 | 1,326 | 1,342 | 1,114 |


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Detergent — No. 44 (crushed)
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THIS Glyptal alkyd resin excels for automotive finishes. It can be baked fast to produce a gloss that stands up under water, weather, oil, alcohol, and gasoline. Automotive finish characteristics of hardness, toughness, mar-resistance, and adhesion may be improved by adding as little as 5 to 15 per cent melamine-formaldehyde resins.

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|---|---|
| Solids content | 49-51% |
| Solvent | Xylol |
| Viscosity | W-Y |
| Color (Hellige) | 4-6 |
| Acid No. of solution | 3-5 |
| Pounds per gallon | 8.2 |
| Aliphatic solvent tolerance | Good |
| Pigment compatibility | Excellent |
| Air dry—setting time | Fast |
| Baking speed | Fast |
| Hardness | Very Good |
| Flexibility | Excellent |
| Gloss | Excellent |
| Gloss retention | Excellent |
| Water resistance | Excellent |
| Oil and gasoline resistance | Excellent |
| Specific gravity (Resin) | 1.14 |
| Phthalic anhydride (Resin) | 39% |
| Rosin or derivatives | None |
| Phenolic resins (Resin) | 3.5-4.0% |
| Oil acids content (Resin) | 38% |
| Type of oil | Soya |

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ALKYD RESINS

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For MASKING the odor of PAINTS, SOLVENTS, MINERAL TERPS, KEROSENE, INSECTICIDES, etc., at a fraction of a cent per gallon
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## Synthetic Resins

The soft coal mining and railroad snarls are continuing to restrict the production of most synthetic resins, particularly those of the phenol, urea and formaldehyde and alkyd types.

**Ester Gum**—High costs and critical situations in glycerin and both gum and wood rosins are still holding down the production of this gum, needed in the composition of many of the synthetic resins.

## Varnish Gums

**Copal**—Despite strenuous efforts on the part of the American importers of Congo copal gum to induce the authorities in the Belgian Congo to grant them the necessary additional export licenses on lots of this natural resin, recently bought in the primary market at prices ranging from 30 to 40 percent above the old and now revoked primary market ceiling levels, it has been impossible within the past week to procure such authorization for further shipments of the gum thus purchased there to this country. Hence, for the nonce, additional importations are being held up.

The only arrival of Congo copal to reach New York last week consisted of 67 bags from the port of Takoradi. Meanwhile, although all the old ceiling prices on all natural resins landed here, as set forth in MPR 297, have been revoked as of May 21, importers of this gum are still unable to name prices on the new material recently purchased in the Belgian Congo, on a landed here basis, until it is actually received here.

**Shellac**—The outstanding development of the past week in the primary market for shellac has been the partially verified report that price ceilings imposed by the Indian Government authorities on the material purchased there have been removed, leaving the market open for the highest bidders. While this lifting of primary market ceilings has been in the nature of a boon for British operators who are not tied down in their resale operations by ceiling limitations in their home market, it has proved of no benefit to the American importers, who are not permitted to sell their shellac at levels higher than the OPA ceilings in the United States, regardless of how much they may be compelled to pay for it in the primary market.

Meanwhile, open market trading is being carried on in London, with sales being made there from warehouse and with speculative operations being recorded in the material either recently bought or yet to be purchased in India. Meanwhile, also the American markets are low on stocks of seedlac, T.N. and other bleaching grades, although four additional cargoes of shellac, long since bought in India, have arrived here within the past week; one such cargo embracing 400 bags of garnet lac, 430 bags of refuse lac, 1,050 bags of seedlac and 1,705 bags of otherwise unspecified shellac while another included 425 bags of garnet lac, 1,660 bags of seedlac and 1,725 bags of otherwise unspecified shellac, both from Calcutta, as well as 275 bags of shellac from Liverpool and 266 bags of button lac and 1,125 bags of seedlac and shellac from London.

## Glues and Binders

**Casein**—A further small increase has been noted in the output of casein by American dairies within the past week, but the gain thus far recorded has not been as great as the seasonal improvement recorded in many previous years at the outset of the new heavy milk flow and hence considerably below the levels expected by the Government authorities to result from the incentive of the higher OPA price ceilings. Meanwhile, stocks in the American markets continue nearly depleted, as there have been no recent importations of casein from Argentina or Uruguay, although some new purchases have recently been made by American importers in Argentina and some fairly sizable cargoes are known to be on the way here.

**Glues**—Creeping paralysis is now reported in the operation of both hide and bone glue making plants, stemming from their depletion of fuel sup-

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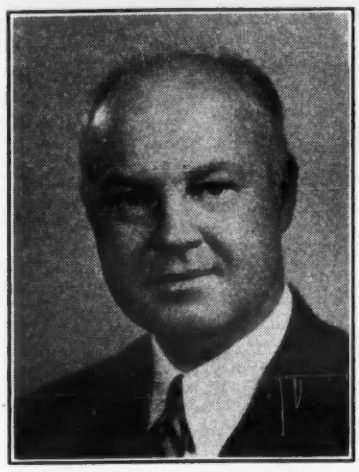
## *Elected President*



**Frederick G. Weed has been elected president and general manager of the Rinshed-Mason Company, paint manufacturer, Detroit.**

plies and scarcity of raw materials. Only the immediate termination of the soft coal strike can enable the manufacturers to get back to normal operations.

## Butyl Alcohol Output Data Is Reported

Normal butyl alcohol data based on chemical allocation records of the War Production Board has been released by the Department of Commerce as follows:—

| | Pounds | |
|---|---|---|
| | January 1-June 30, 1945 | 1944 |
| Direct military[1] | 2,000 | ..... |
| Export | 6,018,000 | 17,360,000 |
| Other essential | 82,079,000 | 150,431,000 |
| Chemical manufacture | 54,316,000 | 96,956,000 |
| Butyl acetate | 25,687,000 | 49,373,000 |
| Dibutyl phthalate | 18,991,000 | 29,041,000 |
| Other butyl derivatives[2] | 9,638,000 | 18,842,000 |
| Lacquer solvents | 14,580,000 | 24,688,000 |
| Aircraft coatings | 8,940,000 | 12,831,000 |
| Ammunition coatings | 935,000 | 1,665,000 |
| Textiles and leather | 256,000 | 538,000 |
| Dyes and penetrants | 580,000 | 898,000 |
| Other protective coatings | 3,889,000 | 8,756,000 |
| Other uses | 13,183,000 | 28,787,000 |
| Resins and plastics | 2,804,000 | 4,218,000 |
| Photography and films | 750,000 | 1,455,000 |
| Hydraulic brake fluids | 1,385,000 | 1,482,000 |
| Oil additives | 207,000 | 479,000 |
| Miscellaneous uses and small orders[3] | 8,037,000 | 21,072,000 |
| Total allocations | 88,099,000 | 167,991,000 |

[1] End-use data not available.
[2] Includes normal butyl alcohol used to make butyl cellosolve and butyl amines.
[3] Includes normal butyl alcohol used to make cellulose acetate sheets, insect repellents medicinals, flotation reagents, butyric acid, cleaners and dehydrating agents, and for research.

## Goodrich Chemical Shifts Rubber Staff

The B. F. Goodrich Chemical Company, Cleveland, has made new appointments in its synthetic rubber, rubber chemicals and reclaimed rubber division.

J. C. Richards jr., has been named sales manager for rubber chemicals, in addition to his duties as sales manager for synthetic and reclaimed rubber. W. D. Parrish, technical service manager for synthetic rubber, assumes the additional duties of technical service manager for rubber chemicals.

C. B. McKeown, formerly technical manager and coordinator for synthetic rubber production, is now technical service staff representative in synthetic rubber and rubber chemicals. Dr. B. S. Garvey jr., formerly technical service manager for rubber chemicals, has been transferred to the company's sales development staff. J. H. Rines becomes staff representative for synthetic rubber in the Cleveland office and rubber chemicals, in addition to his duties as eastern sales representative for reclaimed rubber.

## Dixon Gets Antitrust Pacific Coast Post

*OPD Washington Bureau*

William C. Dixon, chief trial counsel for the government in the titanium cartel case against the National Lead Company and E. I. du Pont de Nemours & Co., has been named general supervisor of the Department of Justice antitrust division in Los Angeles, San Francisco and Seattle.

## Hilo Varnish Assigns Goldenhill, Friedman

Robert Goldenhill has been assigned to the western Connecticut industrial sales territory, and Sam C. Friedman to the Chicago trade sales territory, by the Hilo Varnish Corporation, Brooklyn, N. Y.

Mr. Goldenhill was recently released from the Air Forces as a Captain, and Mr. Friedman returns to the company after six years service as a civilian consultant to the Air Forces.

## *Trade Briefs*

**Maas & Waldstein,** manufacturer of finishes, Newark, N. J., is marketing a new, high-gloss protective and decorative coating for polystyrene plastics.

**World Chemical Corporation,** New York, has opened a new plant in Queens, N. Y., for the manufacture of synthetic organic detergents for the textile, leather, soap and industrial cleaner field.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Dutrex 6 & 15E for rubber

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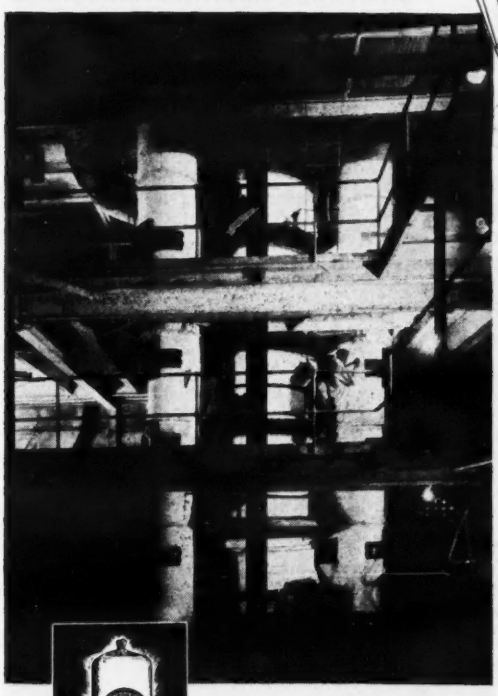
# ST. JOE *Lead-Free* ZINC OXIDE

ABOVE: *A stope in the Balmat mine.*

BELOW: *Partial view of electro-thermic furnace.*



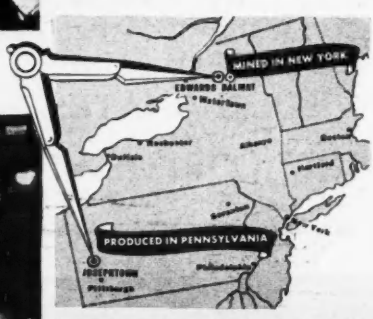
## *Controlled* QUALITY AND UNIFORMITY from ORE to OXIDE

The ore from which St. Joe Zinc Oxides are produced originates in the northern part of New York where the St. Joseph Lead Company owns and operates zinc mines at Edwards and Balmat, St. Lawrence County.

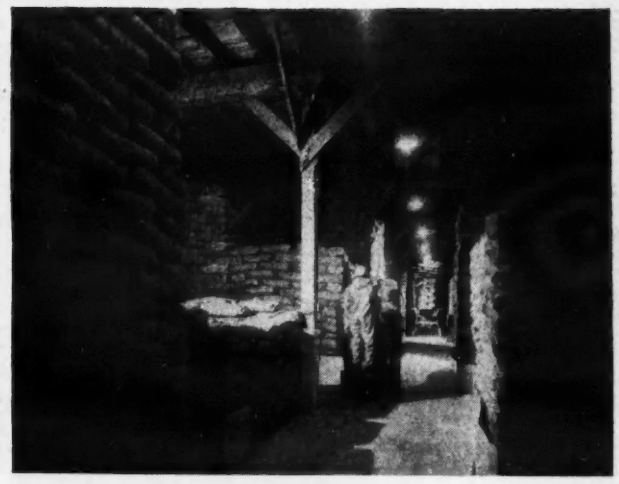
After mining and milling, the zinc concentrates are shipped to the Company's smelter at Josephtown, Pa., where St. Joe Zinc Oxide is produced by a patented electro-thermic process—exclusive with the St. Joseph Lead Company.

This unity of control in production from ore to oxide is largely responsible for the product's exceptionally high purity and uniformity, and explains why St. Joe lead-free Zinc Oxides have become justly famous in the consuming industries.

From Josephtown, Pa. the finished zinc oxides, packed in paper bags and wooden barrels, are shipped to all consuming industries in the country—Josephtown being centrally located, geographically, as far as the major consumption of Zinc Oxide is concerned. In addition, stocks of St. Joe lead-free Zinc Oxides are warehoused in the principal cities of the United States.




BELOW: *Section of our Zinc Oxide storage warehouse.*



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# Oils, Fats, and Waxes

Highlight of the oils and fats market last week was the report from Argentina that the government had authorized the Agricultural Production Regulating Board to purchase all actual and future stocks of flaxseed, sunflowerseed, rapeseed and peanuts f.o.b. Buenos Aires and their oils and meals for export from Buenos Aires. The Argentine government's central bank will fix the prices for available export surpluses and there will be no further market quotations on these products. Furthermore, it was officially reported that the agreement signed May 9, 1945, between United States and Argentina is about to be rectified. For details, see page 5 of this issue.

Trading in oils and fats was slow last week. Available supplies were scanty and demand continued to exceed supplies.

Soliciting shipments of live hogs from producers by offering feeds and feed ingredients as an inducement has been prohibited specifically, OPA announced effective May 28. This action, prohibits live hog buyers from offering tankage and feeds—all of which are in short supply—as a means of procuring shipments of hogs. Live hog slaughterers located near marketing centers have been able to divert supplies of live hogs from slaughterers and other buyers situated farther away, OPA said. These activities have created shortages in areas some distance away from the markets and have tended to disrupt the normal distribution of hogs. OPA also announced two other minor changes to the live hog regulation, as follows:—1. Live hog order buyers are authorized to charge for transportation of hogs in the name of slaughterer clients. These charges cover transportation costs between the place the hogs are weighed for purchase and the slaughterer's delivery point. 2. A farm slaughterer is explicitly defined as "a person chiefly engaged in producing agricultural products as the resident operator of a farm and who does not sell or deliver meat of a dressed weight in excess of 6,000 pounds in any twelve consecutive months."

## Cottonseed Oil

Limited supplies continued to restrict business. A steady demand absorbed deliveries on previous contracts, with little oil available for resale. Crude oil was bid at ceilings, with trading confined to occasional tankcars.

Cotton crop was reported fairly good in the northern portion of the belt, but was retarded elsewhere.

Bleachable otil prices follow:—

| | Cents per pound in tanks— High. | Low. | Close. |
|---|---|---|---|
| July | .... | .... | 14.31 bid |
| September | .... | .... | 14.31 bid |
| October | .... | .... | 14.31 bid |
| December | .... | .... | 14.31 bid |
| March, 1946 | .... | .... | 14.31 bid |
| May | .... | .... | 14.31 bid |

Total sales, none.
Cash, 14.31c. nom.

Crude, Southeast, 12¾c.; Valley, 12¾c.; Texas, 12½c. f.o.b. works (all ceiling prices).

*Atlanta, May 22.*—Urgent demand continued for cottonseed and peanut oils and all oilmeals. Occasional tankcars of crude cottonseed oil were sold at ceilings. Meals continued scarce despite the increase in ceilings of $14 per ton.

*Memphis, May 23.*—Rainy weather and cool nights retarded cotton growth in this section. Some replanting in Arkansas and southern Missouri. Demand for cottonseed products active, with trading slow.

## Linseed Oil

Advices from Argentina stated that the government has authorized the Agricultural Production Regulation Board to purchase all actual and future stocks of flaxseed at 35 pesos per 100 kilos on wagon at the port of Buenos Aires. The Board also will purchase linseed oil, linseed cake and meal for export from Buenos Aires at the following prices:—Oil, 0.99 pesos per kilo, expellers or cakes, 222 pesos per metric ton in bags and meal, 200 pesos per ton in bags. It was also officially reported that the agreement between the United States and Argentina signed May 9, 1945, is about to be rectified.

Arrival of 7,110 tons of Uruguyan flaxseed was noted at New York last week for distribution among Eastern crushers. Two other shipments were due to arrive within the next two weeks. The balance of the 50,000 tons of Uruguyan seed recently purchased by CCC was expected to reach here by July. While this supply of seed would ease to some extent the tight oil supply situation during the Summer months, it was pointed out by factors that no stable improvement could be expected until the current seed crop starts moving in the early Fall months.

Higher price ceilings for flaxseed became effective May 17, under amendment 9 to MPR 397, it was announced by the Department of Agriculture, when the seed is not delivered by truck at the following terminal points:—

| | Per Bushel |
|---|---|
| Minneapolis, Duluth and Red Wing, Minn., Milwaukee, Chicago and Portland, Ore. | $3.35 |
| Emporia and Fredonia, Kans. | 3.20 |
| Corpus Christi, Harlingen and Houston, Tex. | 3.15 |
| San Francisco, Oakland, Berkeley, Los Angeles, Long Beach, Wilmington, Buena Park and Fresno, Calif. | 3.60 |

*Minneapolis, May 22.*—Crushers continued to get harried calls from users of oil who were in a tight spot as far as reserves were concerned, but it was virtually impossible to scrape up another pound of oil in any position.

Shipments of linseed oil, in pounds, were as follows:—

| | 1945-46 | 1944-45 |
|---|---|---|
| This week | 5,280,000 | 3,660,000 |
| Since Sept. 1 | 241,880,000 | 193,250,000 |

**Flaxseed**—Frost damage to the flaxseed crop was reported slight, and mostly in the South Dakota and southern Minnesota areas.

*Minneapolis, May 22.*—Flax losses due to the mid-May freeze were minimized in most field reports received during the week or ten days. According to the Flax Institute the damage to flaxseed was largely localized, mostly in the South Dakota area, and it is felt that losses in the overall picture will be quite small. The advance of 25c. in seed ceilings came as expected by the trade, but it made little or no difference to the producer, who will only get $3.60 per bushel. basis Minneapolis, for his 1946 output.

| | Receipts 1945-46 | Receipts 1944-45 | Shipments 1945-46 | Shipments 1944-45 |
|---|---|---|---|---|
| This week | 34,500 | 131,500 | 39,000 | 6,000 |
| Since Sept. 1 | 19,871,000 | 9,879,000 | 4,213,500 | 1,831,500 |

Flaxseed in Minneapolis during the week was quoted at $3.35 (ceiling) per bushel for spot and for forward deliveries.

*Buenos Aires, May 24.*—Flaxseed shipments totaled 200,000 bushels to the United States during the week. Visible seed supply wsa estimated at 3,150,000 bushels.

*Hull, May 24.*—Exports of flaxseed from India have been banned and quotations withdrawn.

## Other Vegetable Oils

**Castor, Dehydrated**—Labor troubles kept two plants closed during the week, which further tightened the supply situation. Active demand was unsatisfied, as other sellers were unable to meet the increased request for oil.

**Coconut** — Quota restrictions continued to restrict business in crude and refined grades. Available stocks on the Pacific coast were said to be limited. Arrivals of 2,000 tons of copra were noted at Baltimore from Manila consigned to Commodity Credit Corporation. This was reported to be the first lot of Philippine copra to arrive on the Atlantic coast since the war.

**Oiticica**—Arrivals totaled 1,600 drums at New York last week for delivery against former orders. This market was dull and featureless though consuming inquiry continued active for replacements. Supplies here were scarce. Offerings for shipment from

*For Late Market Developments, See Page 4*

## *Market Trends*

**Prices Advanced**

None

**Prices Reduced**

No. 1 and 2 yellow carnauba wax, 5c. per lb.

**Comparative Price Indexes**

(100=August 1, 1914)

| Last week. | Prev. week. | Last month. | Last year. |
|---|---|---|---|
| 193.5 | 193.5 | 193.5 | 193.3 |

*(For Current Prices see page 9)*

Brazil were reported practically unavailable.

**Olive**—Latest advices from Washington stated that plans for the licensing soybean oil in exchange for olive oil between the United States and Spain, Italy, Lebanon and Syria may be announced shortly.

**Peanut** — Planting of peanuts in Georgia and Alabama was nearing completion, with conditions mostly favorable. Recent heavy rains retarded operations in some sections. Runner crop was reported practically planted, but Spanish planting will continue for several weeks. Most sections report good stands, but some replanting is necessary where stands are poor.

**Sesame**—The 1945-46 acreage under seasame seed in India totals 2,448,000 acres, according to the second estimate, compared with the corresponding estimate of 2,535,000 acres, in 1944-45, a decrease of 3 percent. This forecast is based upon reports from 86 percent of the total area under sesame seed.

## Fats and Greases

**Greases**—Supplies continued limited and offerings were readily taken at ceilings. Production showed little improvement.

**Lard** — Department of Agriculture acted May 20 to speed up deliveries of lard for relief feeding. This will be accomplished by an amendment to WFO 75.3 which will require affected slaughterers to make up delivery deficits in amounts of lard required to be set-aside and held for delivery to government agencies, not later than June 15. In recent months the lard set-aside orders have been revised to require affected packers to deliver to government agencies each week the quantity required to be set-aside dur the preceding week. This provision went into effect March 10, 1946 on pork and lard. The order has also been amended to strengthen its violation provisions. Failure to comply with either the set-aside or delivery provisions of the order will make affected packers subject to withholding of the meat subsidy upon certification to the Reconstruction Finance Corporation.

**Tallow**—Production lacked improvement and trading was restricted to moderate quantities at ceilings. Demand was urgent.

## Fatty Acids

**Red Oil**—This market continued firm under an urgent consuming demand and sold-up production. Makers restricted sales to regular customers.

**Stearic Acid**—Buying interest continued keen, but business was quiet. Production moved steadily against former orders.

## Fish Oils

There was little doing in this market last week. Lack of supplies continued to affect trading. Inquiry was keen.

*Baltimore, May* 21.—Menhaden fishing season off Florida has so far proved decidedly disappointing. It is estimated that because of bad weather conditions the production so far has hardly equalled a third of last year. In view of this situation there is a natural hesitancy on the part of the fishing companies to take on further commitments. As for the operations farther up the coast, it is to be said that only one company or two anticipate doing anything in the Spring, off North Carolina. Operations in the Chesapeake Bay and off the Virginia capes were expected to start about June 1.

## Cake and Meal

Professors will be required to set aside 10 percent of their June production of soybean, cottonseed, linseed, and peanut meal, it was announced May 23 by the Department of Agriculture. This is same amount as the May set aside.

**Cottonseed Meal**—Higher ceiling of $14 per ton, did not bring out any additional offerings of meal. Feed and fertilizer trades were in the market for supplies, but offerings were practically nil.

**Linseed Meal** — Demand continued unsatisfied. Supplies continued scanty, as crushers were sold up.

*Minneapolis, May* 22.—Demand for linseed meal continued brisk, buyers absorbed the $14.00 per ton ceiling increase without a murmur and coming in the market for needed supplies without asking about the price.

Shipments of linseed meal, in pounds, were as follows:—

| | 1945-46 | 1944-45 |
|---|---|---|
| This week..... | 6,920,000 | 5,340,000 |
| Since Sept. 1..... | 331,620,000 | 268,140,000 |

**Peanut**—Business was slow, as offerings were scarce and were not increased by the higher price ceilings. Consumers continued to seek supplies, but met with little success.

## Waxes

**Beeswax** — Business was reported moderate with prices unchanged and well held for all grades.

**Candellila**—Light supplies on the spot were closely held at former levels. Trading was reported confined to small lots. Inquiry was spasmodic.

**Carnauba** — Unconfirmed cable advices from Brazil stated that from 400 to 500 tons of carnauba wax were lost on the SS West Point, which struck a reef and was sunk off the coast of Brazil en route to New York. While the total quantity of wax on the West Point, loaded at Ceara was unavailable, it was stated that 210 tons were shipped from Paranahyba. This resulted in an active demand to cover losses on the vessel, and sales were reported in No. 3, North Country at $1.65 per pound f.o.b. Brazil for May-June shipment, with sellers advancing quotations to $1.66 to $1.67, same basis. The spot market also was firmer, though quotations were without change.

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Pitch—and

Special Fatty Acids for Rubber Compounding

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## *Fats, Oils Production*

*—Continued from page 7*

ture of the seed; the properties of the pigments in the seed, and the nature of the solvents used for extraction. They reported that a method of processing cottonseed has been developed which permits separation of the pigments in the form of intact glands and defatted cottonseed.

Vernon L. Frampton and Harold H. Webber, of the research division of the National Cotton Council of America, said that evidence had been obtained that in the extraction of cotton seed with several organic solvents, the composition of the extract obtained with a given solvent will vary from seed specimen to seed specimen, and the composition of the extract obtained with a given seed specimen is dependent on the nature of the solvent used.

At another session of the meeting, the development of a process for rendering lard and other animal fats, using dilute sodium hydroxide, was described by F. E. Deatherage, of F. E. Kroger Food Foundation and the Research Foundation of Ohio State University.

Laurence K. Whyte, of the Kansas City, Mo., office of Colgate-Palmolive-Peet Company, told of the development of a spectrophotometric method for the determination of glycerol, which is accomplished through the medium of the sodium cupri-glycerol complex. He said the method possesses a satisfactory degree of specificity and the reagent employed reacts only with compounds having hydroxyl groups on adjacent carbon atoms.

Analyses of products of the Chinese tallow tree, indicated the presence of 20 percent oil, 24 percent tallow, 11 percent extracted meat, 8 percent fiber and 37 percent shell, according to a paper presented by W. M. Potts, of Texas A & M College, and D. S. Bolley, of the research laboratories of the National Lead Company.

## *Cottonseed Research*

*—Continued from page 7*

be obtained only in widely-scattered articles covering particular phases of the subject, and will contain some aspects of the industry which heretofore have not been available in any form.

The critical shortage of cottonseed oil for food, cottonseed meal, cake and director of the association. The group's educational service is actively cooperating with state experiment stations, extension services and other agencies, he said, to aid efficient and economical production of cotton and cottonseed hulls for livestock feed, and cotton linters for industrial uses, was reviewed by A. L. Ward, educational necessary to supply these needed products.

Paul T. Truitt, president of the National Association of Margarine Manufacturers, said that margarine manufacturers are trying to extend the use of their product by educating away the old-time prejudices, laws, rules and regulations against margarine, so that, based on merit alone, it can take its logical and rightful place in the American diet.

Other speakers were Dr. L. B. Howard, chief of the bureau of agricultural and industrial chemistry of the Department of Agriculture, who discussed "Some Trends in the Cottonseed Processing Industry," and Dr. M. K. Horn jr., of the National Cotton Council, whose subject was "An Expanded Research Program for Cotton and Cottonseed."

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## *Corporation Earnings*

**McKesson & Robbins**

| | 1946 | 1945 |
|---|---|---|
| Net income | $2,066,806 | $1,106,800 |
| Per share | 1.14 | .57 |

**Mead Corporation**

| | 1946 | 1945 |
|---|---|---|
| Net income, 12 weeks, March 23 | $574,490 | $247,120 |
| Per share | .68 | .20 |

**Dr. Pepper Company**

| | 1945 | 1944 |
|---|---|---|
| Net income, year, Dec. 31 | $978,749 | $1,043,511 |
| Per share | 1.40 | 1.49 |

**S. O. Co. of Ohio**

| | 1946 | 1945 |
|---|---|---|
| Net income | $2,025,909 | $1,407,315 |
| Per share | .67 | .52 |

**Victor Chemical Works**

| | 1946 | 1945 |
|---|---|---|
| Net income | $473,259 | $238,790 |
| Per share | .38 | ..... |

**Wrigley (Wm. Jr.) Co.**

| | 1946 | 1945 |
|---|---|---|
| Net income | $1,548,422 | $1,557,723 |
| Per share | .79 | .79 |

**Zonite Products Corp.**

| | 1946 | 1945 |
|---|---|---|
| Net income | $321,149 | $266,675 |
| Per share | .39 | .32 |


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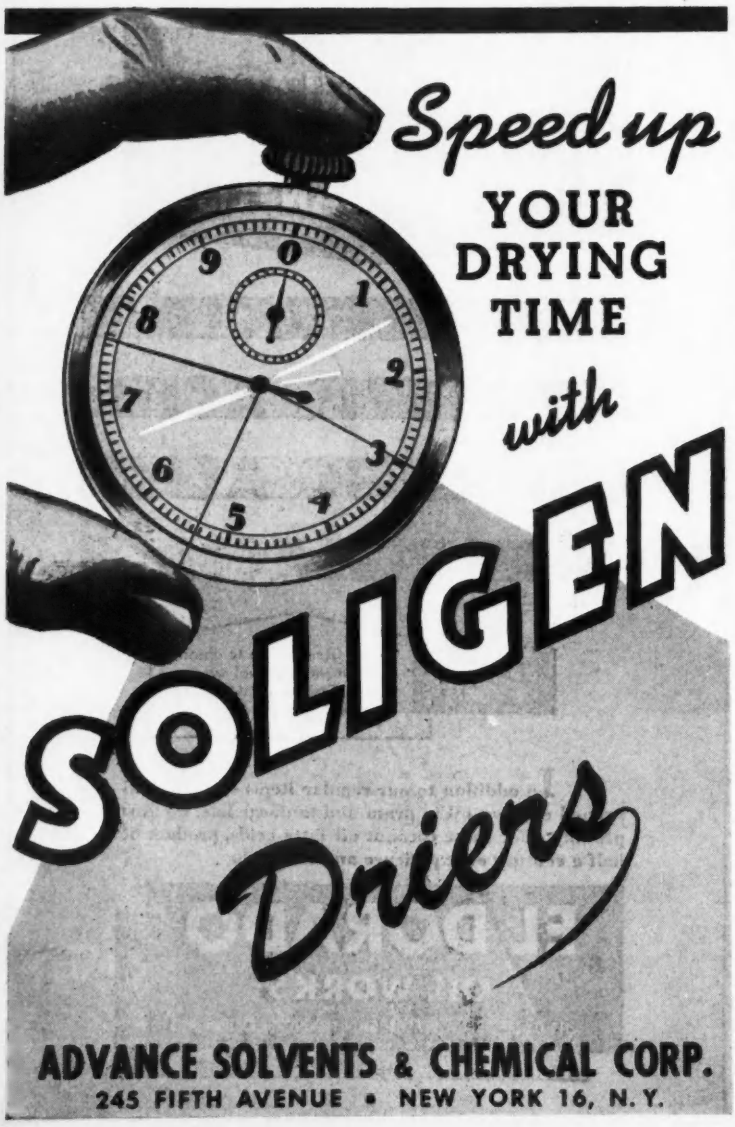

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